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This copy of the two-volume book,
The Cornbelt's Last Open
Pollinated Corn, is donated
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for the opportunity, through
cooperative extensions, to have
bean of some service to
farm people.
Mayflower Home
Skinnell, Iowa.
June, 1974.
W. H. Mosher

About 100 of the 120 natural size photographs, with detailed descriptions, shown in Volume I are representative of corn entered in the Woodford County Corn Yield Test by ordinary good farmers of Woodford County who were growing corn for feed on their own farms or for sale as grain. They did not show corn at the local, county, state or national shows that were common in those days, or sell seed. This is the only collection of such photographs that is known to exist; hence its historic value. This author knows of only three men in the cornbelt who still grow open pollinated corn.

Students of today and the future are urged to read carefully the Miscellaneous Studies on pages 206 to 226 of Volume II.

PREFACE

to

THE CORNBELT'S LAST OPEN POLLENATED CORN

Entered on these four pages are Xerox copies of the 15 pages of Chapter 8 of the book, *EARLY IOWA CORN YIELD TESTS AND RELATED LATER PROGRAMS*, Iowa State University Press, 1962.

This book in two volumes is largely an historic study based on an expansion of Chapter 8 of the book mentioned above. Any student of these volumes is urged to read Chapter 8 carefully before proceeding further in the study. It would be helpful to read the entire book of which Chapter 8 is one of 12 chapters.

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County Corn Yield Test. The more important ideas on which the plans were based follow:

1. The belief that in every Corn Belt county there was some farmer who had developed a strain of corn which was better for that county than the strains that most farmers were growing, or that they could bring in from outside the county.
2. A field test for yield and quality continued over several years was the only way of finding superior strains.
3. The field testing of seed from a large number of farmers, each of whom had selected his seed for several years according to his idea of what was best.
4. Acceptance for the test of seed from all farmers who submitted samples. (Failure to do this in Clinton County, Iowa, may have caused us to miss a superior strain.)
5. Continued planting during all three years of the test of all samples submitted in order to test all samples under varying conditions.
6. Each farmer submitting seed to bring in a relatively large number of ears in order to insure that the sample was representative of the strain.
7. Each ear of each sample to be ear tested for germination and disease under carefully controlled and uniform conditions so as to eliminate insofar as possible differences in yield and quality due to differences in germination and disease.
8. The director of the project to avoid any selection of ears or kernels of any sample submitted for the test based on his idea of desirable type.
9. The elimination as much as possible of accidental differences in yield due to environmental differences.
10. A comparison in the fourth year of a few of the high-yielding strains by farmers of Woodford and surrounding counties, with plantings beside their own seed.

U. S. DEPT. OF AGRICULTURE
NATIONAL BUREAU OF PLANT INDUSTRY
JUL 10 1974
PREP.

8. The Woodford County, Illinois, Corn Yield Test

KRUG CORN came to be the most commonly grown strain of open-pollinated corn in an area from 50 to 100 miles wide, reaching across the Corn Belt from Ohio to Nebraska, during the ten years just preceding the general introduction of hybrid corn. It also became a valuable source of inbreds for the production of commercial hybrids.

It happened in this way. I began work in Woodford County, Illinois, as farm adviser (county agricultural agent in most states) January 1, 1916. The Clinton County, Iowa, Corn Yield Test as described in the preceding chapter had just been completed.

The agricultural leaders in Woodford County, which is in the edge of the great grain-farming area of east central Illinois, knowing of the work in Clinton County asked that a similar project be undertaken in their county. World War I was on and the project was not undertaken until the close of the war. The Armistice on November 11, 1918, left the way open to proceed.

THE PLAN OF THE WOODFORD COUNTY CORN YIELD TEST

The Woodford County Corn Yield Test was based almost entirely on the observations and results of the County Farm demonstrations in Iowa and the Clinton

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11. Definite plans for the commercial production and distribution of the strain or strains finally selected as most superior.

DESCRIPTION OF THE WOODFORD COUNTY CORN YIELD TEST

During January, 1919, 118 men each brought to local meetings 100 ears of his seed corn. All but three or four samples had been grown in the county by the owner for five or more years.

Each sample was examined with the help of the owner and the 20 ears which appeared to be in the poorest condition for seed were discarded. An earnest attempt was made not to meddle with the type as selected by the owner.

Ten representative ears were then selected from the 80 and numbered with the owner's number. The 10-ear samples were kept to use in exhibits showing the results of the tests.

Three rows of kernels were shelled from each of the remaining 70 ears, to represent the farmer's strain in planted yield comparisons, and placed in envelopes. The owner of the corn then took the 70 ears home with him.

A careful germination test of 10 grains from each envelope was made, and the corn from ears which did not have perfect germination or which showed badly shrunken kernels or were apparently diseased, was discarded. The kernels from the ears which showed perfect germination, apparent freedom from disease, and good kernel development were then mixed to provide the sample for field planting. As an average, about 50 ears of each man's seed qualified for the test.

Each of the 118 samples was planted in four places, twice in each of two widely separated fields. The corn was planted by hand so as to get the same stand. In 1919 three kernels were planted in each hill. The plots were four rows wide and 15 hills long. Test samples were

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separated by plots planted with one lot of seed, so that each test sample was planted between two plots of the same kind of corn, these to serve as check plots.

As the corn from each plot was harvested in the latter part of October the ears were divided into two grades, one of sound corn and one of nubbins, moldy, and smutted ears. The corn in each grade was weighed separately.

In 1920 each of the same 118 men who had had seed in the 1919 test brought in another sample of 80 ears of the same kind of corn as that furnished in 1919. In most cases the 1920 bushel was selected from the plot where the remnants of the selected ears of the 1919 sample had been planted. Two additional samples were included in 1920, making a total of 120 lots.

In 1921, 117 samples were brought in by the same men who had had seed in the test during the first two years. All three of the men whose seed was not entered the third year had quit farming or had moved away.

The test was conducted in almost the same way in 1920 and 1921 as in 1919. In 1920 and 1921 the seed was planted with four kernels per hill and the corn thinned to two stalks per hill in the first and third rows and to three stalks in the second and fourth rows of each plot. The thinning was done when the stalks were about a foot tall. It was thought that the thick planting thinned to a uniform stand would give a yield determined more nearly by the inherent ability of the seed to produce, and less influenced by any diseased or accidental condition that would have lowered the vitality or vigor of the seed. Final exhibit of the Woodford County tests is shown in Figure 8.1.

RESULTS OF THE THREE-YEAR TEST

The seed furnished by George Krug produced an adjusted three-year average yield of 78.1 bushels per acre of dry shelled corn. This was 1.8 bushels more than the next highest yielding sample, 6.6 bushels more than the

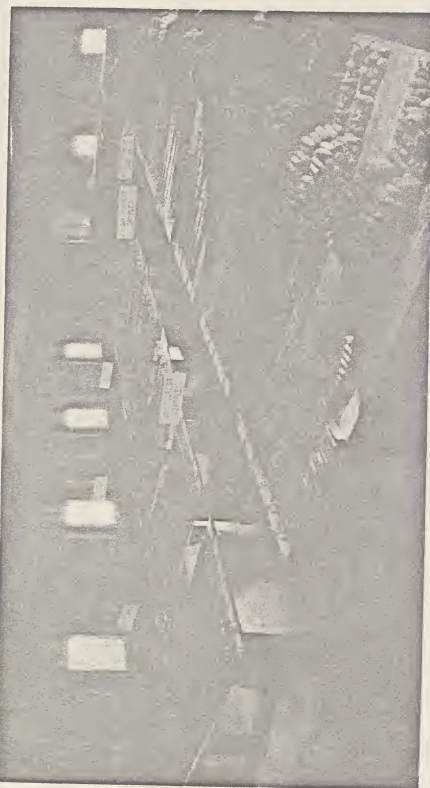


Fig. 8.1. Final exhibit of the Woodford County Corn Yield Test. The six high-yielding samples are on the left-hand table with others arranged in order of yield down the left-hand row of tables and back to the six low-yielding samples on the right-hand table in the foreground.

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average, and 17.1 bushels more than the lowest yielding sample.

A brief summary of Krug and other samples is shown in Table 8.1.

Table 8.1. A Brief Three-year Summary of Krug and Other Samples

Item	Bushels Per Acre	Percent Moisture	Percent Good Corn	Percent Shelled Corn
The George Krug sample	78.1	20.3	89.7	86.3
Average of 120 samples	71.5	21.4	89.7	85.7
The lowest yielding sample	61.0	23.6	86.1	85.3
Average of 12 high-yielding	75.5	20.7	89.7	86.1
Average of 12 low-yielding	67.4	21.9	86.1	85.5
12 with least moisture	72.2	19.1	89.5	85.8
12 with most moisture	69.9	23.6	88.7	85.4
12 with most shelled corn	72.6	21.1	89.6	86.8
12 with least shelled corn	69.8	21.5	89.8	84.8

The Krug corn was more consistently high yielding in the 12 field trials, four per year for three years, than any other sample. When the 120 samples were divided into 10 groups according to yield, the Krug sample was in the high decile group eight of the 12 times and once in each of the second, third, fourth, and sixth decile groups. A sample of the high-yielding Krug corn is shown in Figure 8.2.

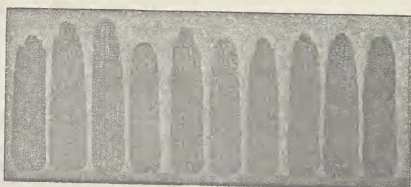


Fig. 8.2. Typical ears of Krug corn as selected by George Krug.

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COUNTY-WIDE TEST IN 1922

Eleven of the 12 samples producing the highest yields during the three years of 1919, 1920, and 1921 were planted in comparative tests on one farm in each township of Woodford County in 1922. The samples were planted with corn planters. Every alternate two rows were planted with the farmer's seed, used as check plots when the yields were calculated.

Two of the most popular strains of seed sold by commercial seedsmen, whose seed production farms were in adjoining counties, were included in the trials in 1922. One strain was carefully ear tested and sold as "disease-free" seed. The other was a consistent winner in the newly established Illinois Utility Corn Show. Also, a composite sample of seed obtained at early planting time from the planter boxes of 45 farmers in Woodford County was included in the field trials.

The Krug corn was again the consistent high-yielding sample in this county-wide test. It outyielded the average of the other 10 high-yielding Woodford County samples by 2.7 bushels per acre. It had outyielded the same 10 samples during the preceding three years by 2.8 bushels.

The Krug corn outyielded the widely advertised and very good "disease-free" corn by 0.6 bushels and the prize-winning "utility corn" by 1.6 bushels. It was consistently high yielding on each of three different types of soil on which the tests were planted.

The Krug corn outyielded the composite sample of seed from 45 planter boxes by 5.1 bushels per acre. It had outyielded the average of the other 119 farmers' samples during the three years by 5.8 bushels. It outyielded the average of the farmers' seed on the ten farms on which the tests were made in 1922 by 2.8 bushels per acre.

FOUR-YEAR SUMMARY

The performance of the Krug corn compared with other seed during the four years 1919 to 1922 is shown in Table 8.2.

Table 8.2. Results of the Woodford County Corn Yield Test Averages of Four Years of 1919 to 1922, Inclusive

Grower of Seed	Bushels per Acre		Percent Moisture	Percent Good Corn	Percent Shelled Corn
	All Corn	Good Corn			
George Krug	75.8	68.5	21.5	90.5	86.1
William Shuck	73.7	66.4	22.3	90.1	86.8
Edwin R. Schertz	73.5	67.1	20.7	91.3	87.1
J. D. Smith	73.5	66.9	22.3	91.0	86.6
Herman Lampe	73.4	66.1	20.1	90.0	85.4
E. D. McChesney	73.3	66.5	21.7	90.7	85.6
C. H. Kamm	73.3	67.0	23.0	91.4	86.5
John Martin	72.7	65.7	22.3	90.4	86.4
Yordy Brothers	72.3	65.7	23.3	90.0	85.9
Peter R. Schertz	72.2	65.4	22.0	90.6	86.0
L. J. Wadsworth	71.7	65.0	21.6	90.7	85.6
Average of 120 samples*	69.5	62.9	22.9	90.5	85.6
Tests on 10 fields in 1922					
Krug corn	68.8	64.1	25.3	93.1	85.7
Disease-free corn	68.2	62.8	29.4	92.1	84.7
Utility prize corn	67.2	62.2	27.7	92.6	85.8
45 farmers' seed	63.7	56.2	27.6	93.0	85.5

*The composite sample of seed from 45 men used in 1922 was averaged in with the 120 lots used during 1919, 1920, and 1921.

COMMERCIAL DISTRIBUTION OF HIGH-YIELDING STRAINS

A farmers' cooperative seed company, the Woodford County Agricultural Association, later named the Woodford County Seed Company, was organized in 1919. One object in organizing the company was to provide a means of commercial production and distribution of the high-yielding seed corn as soon as such was found.

From about 10 to 100 bushels of seed was selected in 1921 by each of the 15 men whose seed had produced the highest yields during the first two years of the 3-year test. Among the 15 samples were 11 of the 12 that

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For the past seven years (1924 to 1930, inclusive) five or more stations have operated in different sections of the county. An average of 50 or 60 different varieties or strains have been tested each year. . . . The results of the eight years testing has demonstrated the Krug corn to be the highest yielding variety of the open pollinated strains, with the Wilson a close second.

A four-year summary of tests conducted by the Henry County, Illinois, Farm Bureau during the years of 1922 to 1925 reads:

Variety	1922	1923	1924	1925	Average 4 years
Krug	79.7	61.3	68.8	95.9	76.4
Hulting	79.7	53.0	63.0	94.2	72.5
Ward	79.6	53.3	58.0	96.4	71.8
Funk	76.7	54.2	63.7	92.4	71.7
Washburn	78.4	56.2	61.0	87.3	70.7
Golden King	76.3	53.6	61.7	90.7	70.6

Krug corn was used by the winner of a state-wide contest in Nebraska in 1933. W. W. Motz, the winner, grew 100.7 bushels per acre on the required 10 acres on his farm in Madison County.

A state-wide survey in Iowa by the Iowa State College showed more Krug corn was being grown in Iowa in 1928 than any other one strain. This was only five years after the first general distribution in 1923! This shows the effectiveness of the Iowa Corn Yield Test in getting rapid distribution of strains of seed corn found by means of that program.

The Iowa Corn Yield Test has had such an important place in the finding and distribution of superior strains of open pollinated and hybrid corn that Chapter 9 is devoted to its history and accomplishments.

Distribution of Krug corn in north central Illinois was rapid. Several times as much of it was grown as of any other one strain. This statement is based on corn-growing practice records kept by cooperators in the Farm Bureau Farm Management Service. A brief summary is given in Table 8.3.¹

¹See Ill. Exp. Sta. Bul. 444, "Farm Practices and Their Effects on Farm Earnings," by M. L. Mosher and H. C. M. Case, Aug. 1938.

produced the highest three-year average yields. This seed was purchased and distributed by the seed company.

RAPID INTRODUCTION OF KRUG CORN

Favorable publicity was given to the Woodford County Corn Yield Test. This, combined with publicity telling of the rapid distribution of the Studeman corn in Clinton County, Iowa, following the similar program in that county, led to many requests for Krug seed.

Wallaces' Farmer said editorially in the issue of January 12, 1923: "Over in Woodford County in central Illinois, they seem to have discovered an extraordinarily productive strain of corn. . . . Everything considered, it now has behind it the best verified yield record of any corn grown in the central part of the corn belt."

The Krug corn immediately won such favor in an area 50 to 100 miles wide across the south central part of the Corn Belt from Ohio to Nebraska that many old, established seed companies obtained foundation seed from the Woodford County Agricultural Association and produced large quantities of seed for sale in their areas.

The greatest impetus to the widespread distribution of Krug corn came in 1926, when entries in the Iowa Corn Yield Test were made by the Woodford County Agricultural Association, and by S. E. Unzicker, and by Lester Pfister of Woodford County. All three samples of Krug corn did well in the Iowa test and the Pfister sample was declared the top-yielding corn in the open pollinated class for the state.

The Krug corn also was the winner in many local yield tests in different states. Quotations from some reports follow:

The report of "A County Corn Improvement Program, 1923 to 1930" by the Jasper County, Iowa, Farm Bureau stated:

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Table 8.3. Summary of Krug Corn Compared to Other Varieties in North Central Illinois

Kind of Seed	Number of Fields	Percent of Fields	Yield Per Acre
Krug	2,923	48.1	52.4
Other good strains ^a	721	11.9	51.6
All other kinds ^b	2,437	40.0	49.0

^aOther good strains included six or more of the most popular strains being sold in the area.

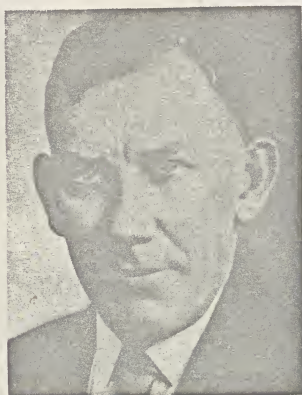
^bAll other kinds were mostly yellow strains developed from Reid's Yellow Dent and Leaming, with some white strains of Boone County White and Silvermine.

REASONS FOR THE RAPID DISTRIBUTION OF KRUG CORN

The Woodford County Agricultural Association had prepared in advance to produce and sell the high-yielding seed as soon as it was found. A contract was made with George Krug to buy from him all of the seed that he would select annually from his crop. He was very particular and such purchases were limited to only a few hundred bushels each year.

Krug was paid what he considered a satisfactory price. His seed was carefully stored, prepared for planting, and put out to good corn growers under contract. It was the corn grown under contract from the seed grown and selected by George Krug that was sold to farmers. George Krug was paid a royalty of a few cents a bushel for all such commercial seed that was sold.

Another source of Krug corn available soon after its discovery was that grown by Lester Pfister. Pfister had been growing a white variety of corn on his mother's 80-acre farm and selling some seed before the Woodford County Corn Yield Test was started in 1919. He had done some careful selection by the old-time, ear-to-row method and his painstaking work and careful records had attracted my attention. His sample, Number 73, was the second highest yielding of the white samples in the test.

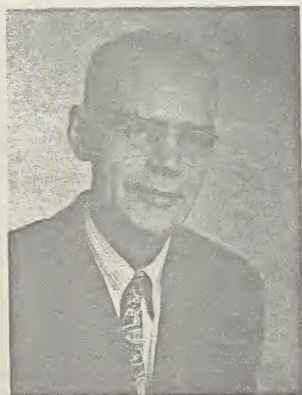


George Krug, Woodford County, Illinois: The man who made Krug corn. Untold thousands of farm people have had more abundant lives because of Krug seed corn, or hybrids for which Krug corn provided one or more of the parent inbreds.

When harvest time came in 1919, Pfister was hired to help weigh and grade the corn as the hundreds of plots (about 1,200 per year) were harvested. His work was so satisfactory that that job was turned over to him. All of the field records for all three years are in Pfister's handwriting.²

Pfister obtained some of the Krug seed distributed in 1922 and began at once to grow and sell it. His experience in helping weigh and grade all samples in the test, his natural painstaking ability to select good seed, and his close study of the basis of selection that George Krug

²The original field records in Lester Pfister's handwriting and all other original laboratory and office records are filed in the Holden Library of the Michigan State University Corn Foundation.



Lester Pfister, who assisted with the Woodford County Corn Yield Test and later developed valuable inbreds from Krug Corn, was one of the first large-scale producers of hybrid seed.

distinctly medium rather than smooth or rough in indentation.³

KRUG CORN HAS BEEN AN IMPORTANT SOURCE OF INBREDS USED IN HYBRID CORN PRODUCTION

Lester Pfister, the young man who had assisted with the field records kept during the progress of the Woodford County Corn Yield Test, was among the first to develop inbreds from the Krug corn. As has been stated, he began selling open pollinated Krug corn in 1923.

³This ear and one ear of each of the next eleven high-yielding samples are now in the Museum of the Michigan State University Corn Foundation, East Lansing, Michigan.

used enabled him to select a strain of Krug corn that was more true to the original Krug type than was selected by most others. His was the best of the Krug seed that won such favor in the Iowa Corn Yield Test.

Other seed corn producers were soon selling large quantities of Krug corn.

Thus the Krug corn, totally unknown even in Krug's own county as late as 1921, within 10 years came to be the most generally grown of any single strain of open pollinated corn in an area from 50 to 100 miles wide across the south central part of the Corn Belt from Ohio to Nebraska.

DESCRIPTION OF KRUG CORN

The quality of Krug corn was good. It was a little earlier than most of the rougher, deeper grained corn then in common use, and graded well on the market. Its golden color and the lustrous, oily appearance of the shelled corn appealed to farmers. It had been developed by rigid selection from a mixed planting of Reid's Yellow Dent and Iowa Goldmine made about 1910.

Krug's most characteristic method of selecting seed was: first, to heft and twist each ear to see that it was heavy for its size and solid; and, second, to shell a few kernels from the butt of each ear to see that the kernels were fully developed down to the cob.

While there was a wide range in most characters, a majority of ears and kernels were medium in size, shape, and indentation. Before me now as I write is an ear of Krug corn which George Krug picked from his 1921 crop as the most typical ear that he could find. It is a medium-sized ear with medium depth of kernels, cylindrical in shape for about two-thirds of its length, then tapering gradually to the tip. It has 18 rows of kernels which are

He began inbreeding Krug corn in 1925 with 388 ears. Within a few years he had reduced the number to four inbreds. His single-cross hybrid, Number 58, was the high yielder on the University plots at Urbana in 1934. During the next ten years the Pfister hybrids, all of which included one or more Krug inbreds and were sold by Pfister's own company or by the Pfister Associated Growers (who obtained seed stock from Pfister), were among the popular hybrids in general use.

Henry A. Wallace and William L. Brown in their book, *Corn and Its Early Fathers*, published in 1956 by Michigan State University Press, place Krug corn along with Reid's Yellow Dent, developed by James L. Reid of Illinois, and Lancaster Sure Crop, developed by Isaac Hershey of Pennsylvania, as a most valuable source of inbreds for hybrid seed corn production.

VOLUME I

of

THE CORNBELT'S LAST OPEN POLLINATED CORN

This two-volume book is an historic study of open pollinated corn such as was grown by Cornbelt farmers during the years immediately preceeding the general introduction of hybrid seed corn. All data used in the study were taken from the records of the Woodford County Corn Yield Test that was conducted by the Woodford County, Illinois, Farm Bureau cooperating with the Agricultural Extension Service of the University of Illinois and the United States Department of Agriculture. ¹¹

The Krug corn, entered in the test by George Krug, was the highest yielding of 120 samples entered in the three year test. It had wide distribution and came to be used by more farmers across the heart of the Cornbelt from Columbus, Ohio, to Lincoln, Nebraska, than any other of several well known strains. Henry A. Wallace and William L. Brown named Krug corn as one of three major sources of inbreds with which the early hybrids were produced in their book, "Corn and Its Early Fathers", published by the Michigan State University Press in 1956. A brief review of the contents of the two volumes follows:

VOLUME I

Volume I is a supplement to Chapter 8 of the book, "Early Iowa Corn Yield Tests and Related Later Programs" by M.L. Mosher, published in 1962 by the Iowa State University Press. The volume includes natural size photographs of typical ears of each of the 120 samples entered in the test, and numerical values of 20 descriptive items for each sample. The reader is urged to read Chapter 8 of the book referred to above before reading further in this book.

VOLUME II

Volume II is a revision of the "Report of a Study of the Relations of Certain Physical Qualities of Seed Corn to Yield, Quality and Maturity", copies of which were filed in the Agricultural Library of the University of Illinois, the Library of the Iowa State University and the Holden Library of the Michigan State University.

¹¹ The County Farm Bureau was then the name of the County Extension organization.

Morton L. Mosher
By
M.L. Mosher
Mayflower Home
Grinnell, Iowa
1974

INTRODUCTION

This book was prepared primarily to preserve for the use of future generations of students the appearance as shown by natural-size photographs and detailed descriptions of representative ears of seed corn selected for use on their farms by the rank and file of good farmers in the middle of the Cornbelt during the years immediately preceding the introduction of hybrid seed. Fewer than 20 of the 120 farmers who entered seed in the Woodford County Corn Yield Test had shown seed at local, county, state or national corn shows, or had sold seed to neighbors. They were raising corn to feed on their own farms or to sell as grain.

I am sure that there is not in existence in the United States any other collection of photographs and descriptive data of open pollinated seed corn developed and used by farmers who were not showing or selling seed. That is why I am preparing this book.

Many local, county and state corn yield tests have been conducted since 1920 but all such tests of which I have knowledge have been by, or with seed from, those who show and/or sell seed locally or outside their communities.

Henry A. Wallace who organized the first company to sell hybrid seed (Produced from inbreds of his own production) said on different occasions that the Woodford County Corn Yield Test was the most thorough and valuable test of the kind ever conducted. In the book, "Corn and Its Early Fathers" by Wallace and Brown (Published by the Michigan State University Press in 1956) Mr. Wallace included George Krug of Woodford County, Illinois, along with Isaac Hershey of Lancaster County, Pennsylvania, and Robert Reid and his son, James Reid, of Tazewell County, Illinois, as the producers of the most valuable strains of corn used to produce inbreds for the first commercial hybrids.

George Krug's sample was the highest yielding of the 120 lots of seed entered in the Woodford County Test. He did not sell seed direct to farmers before or after the test. However for several years after the test was completed he did select from the corn grown on his 160 acre farm all the seed ears that were to his liking and sold them under a mutually favorable contract to the Woodford County Cooperative Seed Company. The company put the Krug-selected seed out to growers for the growing of the commercial seed. Mr. Krug was paid a royalty on all seed grown from the seed of his selection. The Woodford County Seed Company, which is still operating, was reorganized and incorporated in 1919 so as to be ready to ~~select~~ whatever seed should have proved best for the county.

Superior yields of corn of good quality produced from Krug seed planted in many local, county and state tests led rapidly to its general introduction across the center of the Cornbelt from Ohio to Nebraska, especially in Illinois and Iowa. The Iowa State Corn Yield Test, begun in 1920 and still being conducted, included Krug corn from the time it was first distributed. A survey made in 1928 and reported in Iowa Experiment Station bulletin 265 showed that more corn was being grown from Krug seed than from any other well known strain of seed. //

UNIQUENESS OF THE WOODFORD COUNTY TEST

Several unique ideas were used in conducting the Woodford County Corn Yield Test.

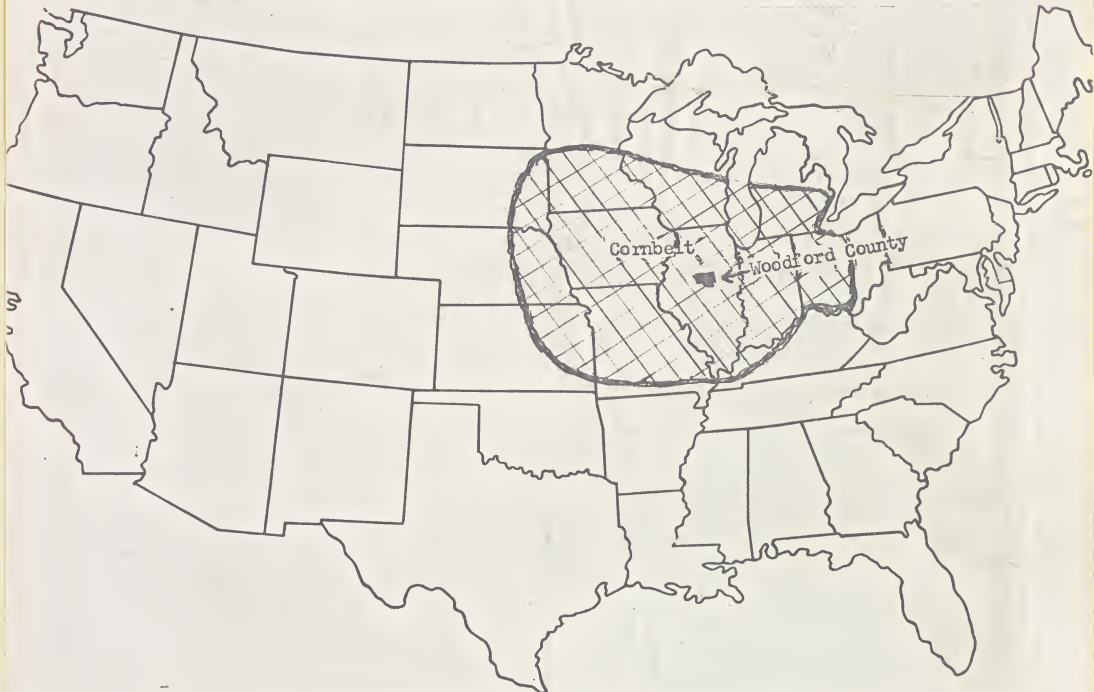
First - After ten years experience with the county yield tests in forty of the counties in Iowa it was recognized by this author that: "There is in every Cornbelt county some farmer who had through special insight, intuitively perhaps, developed a strain of open pollinated, that was better for use in that county than any that could be obtained from winners of corn shows or from the many companies that were selling seed". (See Early Iowa Corn Yield Tests and Related Later Programs). The primary purpose of the Woodford County Test was to find such seed for Woodford County.

Second - In consideration of the first unique idea, the first requirement for acceptance of seed for the Woodford County Test was that the corn must have been grown in the county by the contributor ^{for five or more years}. In all other tests of which I have knowledge the samples were contributed by farmers or seed companies who were interested in showing seed at corn shows or in selling seed to others. About 80 percent of those who entered seed in the Woodford County Test had never shown or sold seed, except possibly a little to neighbors.

1 Iowa Agricultural Experiment Station Bulletin No. 265, High Yielding Strains and Varieties of Corn for Iowa, by H.D. Hughes, Joe L. Robinson and A.A. Bryan, July, 1929. During the eight years of 1925 to 1932 records kept on a total of 6,001 fields on nearly 1,000 farms in north central Illinois show that 2,923, 48%, of the fields were planted to Krug; 721, 12%, were planted to other good strains including Funk's 76A, Somers Yellow Dent, Lampe (See page 4 of Volume I), McKeighan's Yellow Dent, which outyielded Krug in western Illinois, Mill County Favorite, Western Flowgen and a few other local varieties and 2,437 fields, 40%, were planted to all other kinds many of which had been developed from Reids Yellow Dent. Krug corn outyielded "other good strains" by .3 bushels and "all other kinds" by 3.4 bushels. Such differences are small but the large number of farms and fields give dependability to the records. (See Illinois Experiment Station Bulletin No. 444, "Farm Practices and Their Effects on Farm Earnings").

Third - The farmers who entered seed in the Woodford County Test understood from the beginning that they would contribute seed of the same strain each of three years and that their samples would be identified by number only until the conclusion of the test. This was fortunate because corn growing conditions varied greatly during those three years of 1919, 1920 and 1921. (See Volume II) It is almost unbelievable that all 118 who entered seed in 1919 did so in 1920 and those who did not enter in 1921 had either quit farming or had moved out of the county. Two samples were included in 1920 and 1921 which were not entered in 1919 for reasons explained on pages 108 and 119.

Fourth - Woodford County, Illinois, where the test was conducted is in almost the exact center of the Cornbelt. Approximately one-half of the corn grown for grain in the United States is grown in the area in which the Krug corn became the most popular of all well known strains. See the map and tabular data below.



PRODUCTION OF CORN FOR GRAIN IN THE UNITED STATES IN 1969
(U.S. Census data)

	Bushels	Percent of total
<u>Three leading states</u>		
Illinois	956,774,000	20.9
Iowa	922,768,000	20.2
Indiana	446,016,000	9.7
Total of three states	2,325,558,000	50.8
<u>Other Cornbelt States</u>		
Nebraska	433,659,000	9.5
Minnesota	355,640,000	7.8
Ohio	232,900,000	4.9
Missouri	182,210,000	4.0
Wisconsin	139,772,000	3.1
South Dakota	139,479,000	3.0
Michigan	93,684,000	2.1
Kansas	91,464,000	2.0
Kentucky	76,846,000	1.7
Other 9 Cornbelt states ..	1,145,654,000	25.1
Total-12 Cornbelt states	4,071,212,000	88.9
36 other mainland states ...	506,652,000	11.1
Total - all mainland states ...	4,577,864,000	100.0

DEDICATION

This book is dedicated to those hardy souls who organized the National Corn Growers' Association in the balcony of the old Coliseum in Chicago during the first National Corn Exposition, which was held there October 5 to 19, 1907. By means of national expositions held in major cities in several corn growing areas during later years they conducted a great campaign designed to educate farmers in the selection of strains of corn considered most suitable for their respective areas and to educate city people in the importance of corn in the economic life of the nation.

At a reunion banquet of the founders of the National Corn Growers Association held in the University Club in Chicago December 2, 1930, this author secured the signatures of those present as shown below

National Corn Growers' Reunion
December 2, 1930

University Club of Chicago

NATIONAL CORN GROWER'S REUNION

December 2, 1930

University Club of Chicago

- H. E. Krueger →
- M. L. Mosher, Urbana, Ill. M. L. MOSHER, URBANA, ILLINOIS
 - James A. King, Mason City, Iowa JAMES A. KING, MASON CITY, IOWA
 - Fred H. Rankin, Urbana, Ill. FRED H. RANKIN, URBANA, ILL. U. of I.
 - W. H. Young, Urbana, Ill. W. H. YOUNG, URBANA, ILL. U. of I.
 - H. E. Krueger, Beaver Dam, Wis. H. E. KRUEGER, BEAVER DAM, WIS.
 - A. L. Stone, Madison, Wis. A. L. STONE, MADISON, WIS.
 - Harvey J. Sconce, Sidel, Ill. HARVEY J. SCONCE, SIDEL, ILL.
 - H. W. Mumford, Urbana, Ill. H. W. MUMFORD, URBANA, ILL.
 - W. A. Wheeler, Washington, D.C. W. A. WHEELER, WASHINGTON, D.C.
 - Fred McCulloch, Belle Plaine, Iowa FRED MCCULLOUGH, BELLE PLAINE, IOWA
 - Dave Thompson, Prairie Farmer, Chicago DAVE THOMPSON, PRAIRIE FARMER, CHICAGO
 - E. D. Funk, Bloomington, Ill. E. D. FUNK, BLOOMINGTON, ILL.
 - L. B. Chlore, Franklin, Ind. L. B. CHLORE, FRANKLIN, IND.
 - A. M. Ten Eyck, Broadhead, Wis. A. M. TEN EYCK, BROADHEAD, WIS.
 - H. A. Winter, Wenona, Ill. H. A. WINTER, WENONA, ILL.
 - Leigh F. Maxey, Farmingdale, Ill. LEIGH MAXEY, FARMINGDALE, ILL.
 - W. A. Olin, Denver, Colo. W. A. OLIN, DENVER, COLO.

The list includes several farmers, seed company executives, Farmers Institute leaders, Experiment Station directors and Agronomy Department heads, Extension Service specialists, a farm paper editor and a representative of the United States Department of Agriculture.

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(1) Quit farming and seed was not available in 1921

(2) Entered only in 1920 and 1921. See page 119

(3) Moved from county and seed was not available in 1921

(4) Entered only in 1920 and 1921. See pages 108 and 114

(5) The test was on his farm

/6 The page number indicates also the rank in yield of the entrant's sample.

VI

NATURAL-SIZE PHOTOGRAPHS AND DESCRIPTIVE RECORDS

of each of the

120 SAMPLES ENTERED IN THE

WOODFORD COUNTY CORN YIELD TEST

The photographs and records are entered on pages 1 to 120 in order of their three-year adjusted yields. Records of the highest yielding sample, No. 1-62, are on page 1 and those of the lowest yielding sample, No. 120-99, are on page 120. The upper, or left hand number for each sample indicates its rank in yield. The lower or right hand number is the sample's identification number by which it was known during the test; it also indicates the order in which the 120 samples were received for the test.

The recorded yield, bushels per acre, of each sample is its average yield on 12 sixty-hill plots, two on each of two farms each of the three years of 1919, 1920 and 1921. Yields were adjusted in four ways: First to a full stand of one to three stalks per hill, Second to the average soil and other growing conditions in all parts of the field, Third to an average moisture of 15 percent at the time of harvest, and Fourth to 56 pounds of dry shelled corn per bushel.

Numerical values of 19 descriptive items were developed, seven of which were obtained by laboratory or field tests and 12 that were observed by oldtime corn judges. Such numerical values are shown beside the photograph of a representative ear of each man's sample. The ears shown are those selected by this author from the 240 ears brought in by each man during the three years. The method of calculating the numerical values of each of the 19 descriptive items is explained in Volume II.

The numerical value for each item is given much more meaning by observing the black dot ● which indicates into which of 10 decil groups of 12 samples each the sample was found. The best or most favored decil group is group 1 and the poorest or least favored is group 10. The 19 charts on which all samples are located by black dots are in Volume II.

THE YIELD TEST SCORE

The yield test scores for each of the 12 descriptive items and total scores for each sample, as observed by oldtime corn judges, were entered after the forms for the first 120 pages were printed. The development of the score is explained in Volume II.

ACKNOWLEDGEMENTS

It would be very negligent and unfair of me not to acknowledge the more or less important parts that others had in making the Woodford County Corn Yield Test a success.

First of course is Professor P.G. Holden, Head of Agronomy and later organizer and Director of the Agricultural Extension Service at the Iowa State University who began County Farm Demonstrations with corn in Sioux County in 1903. After working with him from 1905 to 1912 helping to conduct 83 demonstrations in 36 Iowa counties we concluded that: "There is in every cornbelt county some farmer who had developed a strain of corn that was superior in yield and quality than others were growing and better than any that could be purchased from seed companies or prize winners in state and national corn shows".

Paul E. Johnston, Assistant Farm Adviser during 1921 and 1922 and Adviser in 1923 and 1924, helped with the corn work in emergencies.

Dr. W.L. Burlison, Head of Agronomy at the University of Illinois paid part of my salary during 1923 while I made laboratory tests and recorded data used in this book.

Lester Pfister, whose inbreds made from Krug corn were among the most valuable in producing the first commercial hybrids, did all of the weighing and much of the grading of the corn at harvest time.

Lawrence Berry manager of the Woodford County Seed Company, carried much of the responsibility of maintaining the quality and bringing about the rapid distribution of the Krug corn.

Charles M. Smith in the west and Frank Hoke in the northeast parts of the county set aside the necessary land on their farms, prepared the seed bed and assisted with the harvest of the crop.

Mrs Mosher, who passed away in 1972, was very patient with me as I worked with, talked about and dreamed about nothing but Indian corn which bids fair to become the most important cereal crop cultivated by man. *plan*

And last I will name two of my children, Martin L. Mosher, Jr. and Ruth Mosher Brown who helped record data as I reported it to them.

I must acknowledge the almost unbelievable cooperation of the 119 men who entered samples of their seed corn in the test. 115 of them brought in samples all three years of the test. The other five samples were brought in two years each. Of the five one moved out of the county, two quit farming at the end of the second year, one was allowed to enter a second sample and one entered a special sample the last two years.

10"

9"

8"

10"

9"



XEROX COPY OF A PHOTOGRAPH OF KRUG CORN SELECTED BY GEORGE KRUG HIMSELF IN 1923

In this "most thorough corn yield test ever conducted" as reported by Henry A. Wallace, the Krug corn which had never been shown at corn shows or sold as seed yielded two bushes more than the next highest, six bushels more than the average of all 120 lots entered in the test and seventeen bushels more than the lowest yielding sample. The lowest yielding sample had won champion prizes at national corn shows.

The quality of the Krug corn was such that the manager of the local grain elevator told me that George Krug brought in the best corn that he bought.

George Krug had two rules that he considered most important when selecting seed ears: (1) pick ears that are solid and heavy for their size and (2) select ears with kernels that are bright and horny from a thin layer of white starch at the crown down to the cob. More of his ears had 18 rows of kernels than more or less than 18. However, he did select some with only 14 or 16 and some with 20 or 22 rows, providing they were heavy for their size and had well developed kernels.

During the twenty years before hybrids came into general use Krug corn was the most commonly used strain of corn grown throughout the heart of the Corn-belt from Columbus, Ohio, to Lincoln, Nebraska.

DESCRIPTIVE DATA FOR SAMPLE NUMBER 1-62

Descriptive items	Value for this sample	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10		
Items that required field or laboratory tests													VOL. II
Bushels per acre	78.1	High 78.1				Median 71.7						Low 61.0	122- 125
Percent of good corn	89.7	High 92.7				89.8						Low 85.8	126- 129
Percent of moisture	20.3	Low 17.9	•			21.4						High 24.9	130- 133
Percent of shelled corn	86.3	High 87.3	•			85.8						Low 84.5	134- 137
Density of shelled corn	35.5	Heavy 35.6	•			34.2						Light 32.4	138- 141
Germination index	86.7	High 93.8				87.1	•					Low 64.5	142- 145
Disease index	79.8	Little 90.2		•		75.7						Much 58.3	146- 149
Weight of ears	12.48	Heavy 15.07				12.75		•				Light 10.35	150- 153
Yield Test acres Items observed by oldtime corn judges													
Density of ears	+5 39.91	Heavy 42.03			•	Median 39.54						Light 37.58	154- 157
Kernel development	+1 62.2	Good 78.6		•		56.4						Poor 38.3	158- 161
Indentation index	+3 35.0	Smooth 16.5	•			44.7						Rough 87.3	162- 165
Length of kernels	+3 13.74	Long 15.72		•		13.41						Short 12.47	166- 169
Width of kernels	-1 7.83	Wide 9.01				7.92		•				Narrow 7.12	170- 173
Thickness of kernels	+1 4.12	Thick 4.42				4.21					•	Thin 3.89	174- 177
Length of ears	+1 8.95	Long 9.67				8.96				•		Short 8.25	178- 181
Diameter of ears	+1 2.133	Small 2.012				2.137	•					Large 2.304	182- 185
No. of rows of kernels	+1 17.8	Small 14.9			•	18.3						Large 20.9	186- 189
Color of shank index	+1 68.3	White 86.7				67.7	•					Dark 36.7	190- 193
Condition of shank index	+7 58.3	Smooth 58.3	•			38.4						Rough 18.3	194- 197
Variation index	+1 7.0	Uniform 3.0				7.0	•					Uneven 11.0	198- 201
Total +24 ★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.													202- 205

Total 24
* A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.

Sample No. 1-62, entered by

GEORGE KRUG

Selected and grown 14 years by Mr. Krug.
Developed from a mixture of a Nebraska strain of Reid's Yellow Dent and Iowa Goldmine. The Iowa Goldmine was, as I remember it, a medium maturing, fairly deep grained and orange colored variety.
This sample was the highest scoring of the 10 "high-yield-score" samples. Page 174, 202
This sample was selected in 1923 as one of the best Utility Type samples. Page 176, 207 - also 216

0 in.

9 in.

8 in.

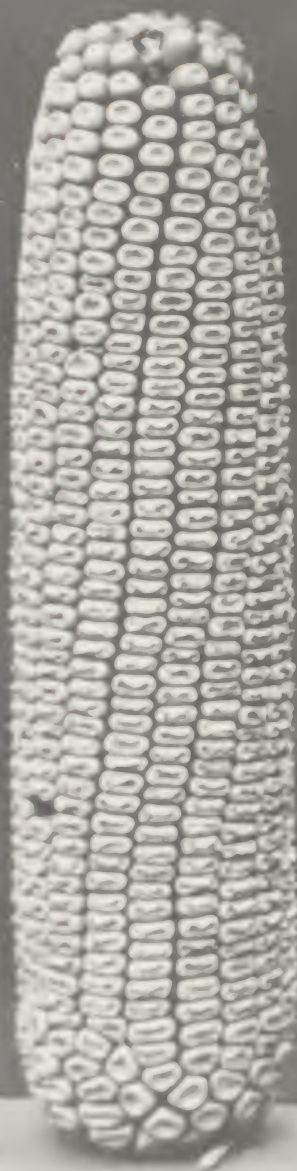
62

DESCRIPTIVE DATA FOR SAMPLE NUMBER 2-101

10 in.

9 in.

8 in.



2
101

Descriptive items	Value for this sample	Decil group										Poorest or least favored	See page	
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														Vol. II
Bushels per acre	76.3	High 78.1				Median 71.7						Low 61.0	122-125	
Percent of good corn	90.6	High 92.7				89.8						Low 85.8	126-129	
Percent of moisture	19.4	Low 17.9				21.4						High 24.9	130-133	
Percent of shelled corn	87.3	High 87.3				85.8						Low 84.5	134-137	
Density of shelled corn	33.9	Heavy 35.6				34.2						Light 32.4	138-141	
Germination index	92.2	High 93.8				87.1						Low 64.5	142-145	
Disease index	68.8	Little 90.2				75.7						Much 58.3	146-149	
Weight of ears	12.43	Heavy 15.07				12.75						Light 10.35	150-153	
Yield test per acre Items observed by oldtime corn judges														
Density of ears +3	40.98	Heavy 42.03				Median 39.54						Light 37.58	154-157	
Kernel development +3	70.7	Good 78.6				56.4						Poor 38.3	158-161	
Indentation index -1	60.7	Smooth 16.5				44.7						Rough 87.3	162-165	
Length of kernels +3	13.86	Long 15.72				13.41						Short 12.47	166-169	
Width of kernels -1	7.68	Wide 9.01				7.92						Narrow 7.12	170-173	
Thickness of kernels +1	4.17	Thick 4.42				4.21						Thin 3.89	174-177	
Length of ears +1	8.83	Long 9.67				8.96						Short 8.25	178-181	
Diameter of ears +1	2.133	Small 2.012				2.137						Large 2.304	182-185	
No. of rows of kernels -1	18.9	Small 14.9				18.3						Large 20.9	186-189	
Color of shank index +1	66.7	White 86.7				67.7						Dark 36.7	190-193	
Condition of shank index +3	50.0	Smooth 58.3				38.4						Rough 18.3	194-197	
Variation index +1	5.0	Uniform 3.0				7.0						Uneven 11.0	198-201	
Total +14 ★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														202-205

Sample No. 2-101, entered by

EDWIN R. SCHERTZ

Selected and grown 14 years by Mr. Schertz.
Developed from a strain of Reid's Yellow Dent which
he had obtained from his father. See page 216

DESCRIPTIVE DATA FOR SAMPLE NUMBER 3-57

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		
Items that required field or laboratory tests														VOL. II
Bushels per acre	76.3	High 78.1					Median 71.7						Low 61.0	122-125
Percent of good corn	88.9	High 92.7					89.8						Low 85.8	126-129
Percent of moisture	20.8	Low 17.9					21.4						High 24.9	130-133
Percent of shelled corn	87.1	High 87.3					85.8						Low 84.5	134-137
Density of shelled corn	34.0	Heavy 35.6					34.2						Light 32.4	138-141
Germination index	90.5	High 93.8					87.1						Low 64.5	142-145
Disease index	73.3	Little 90.2					75.7						Much 58.3	146-149
Weight of ears	12.47	Heavy 15.07					12.75						Light 10.35	150-153
Yield test Pearce Items observed by oldtime corn judges														
Density of ears	+5 40.30	Heavy 42.03					Median 39.54						Light 37.58	154-157
Kernel development	+1 53.6	Good 78.6					56.4						Poor 38.3	158-161
Indentation index	-1 50.0	Smooth 16.5					44.7						Rough 87.3	162-165
Length of kernels	+3 13.82	Long 15.72					13.41						Short 12.47	166-169
Width of kernels	+1 8.25	Wide 9.01					7.92						Narrow 7.12	170-173
Thickness of kernels	+1 4.11	Thick 4.42					4.21						Thin 3.89	174-177
Length of ears	+1 8.79	Long 9.67					8.96						Short 8.25	178-181
Diameter of ears	+1 2.117	Small 2.012					2.137						Large 2.304	182-185
No. of rows of kernels	+1 16.8	Small 14.9					18.3						Large 20.9	186-189
Color of shank index	-1 61.7	White 86.7					67.7						Dark 36.7	190-193
Condition of shank index	+7 56.7	Smooth 58.3					38.4						Rough 18.3	194-197
Variation index	-1 8.0	Uniform 3.0					7.0						Uneven 11.0	198-201
Total +18 ★ A relationship of each descriptive item to yield and to all other items														202-205

Sample No. 3-57, entered by

WILLIAM SHUCK

Selected 17 years and grown by Mr. Shuck.
Developed from seed obtained from George Graves of
Heyworth, Illinois.

This was one of the 10 "high-yield-test" samples.

Page 174, 203

This was selected in 1923 as one of the best Utility
Type samples. Page 176, 207 also 216

3
57

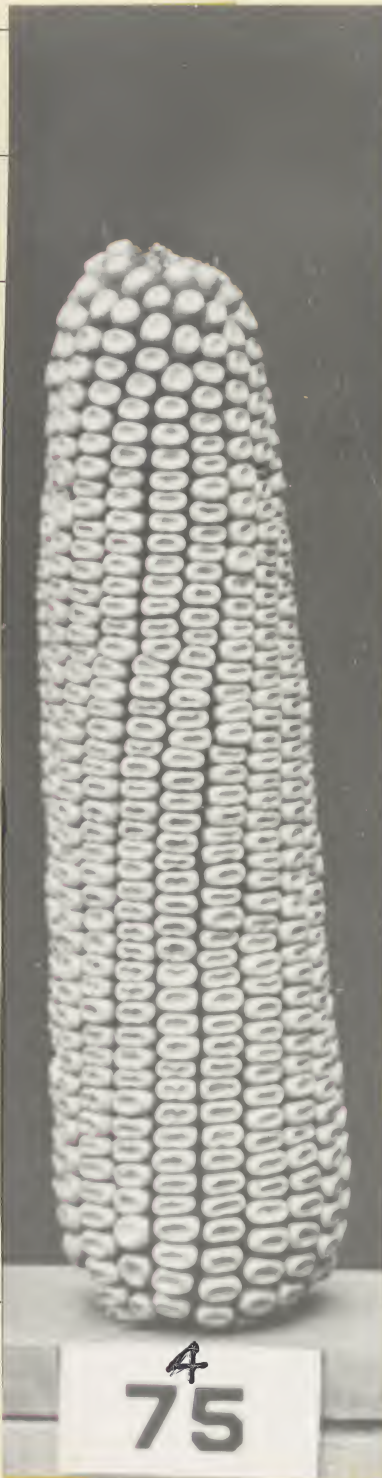
4

DESCRIPTIVE DATA FOR SAMPLE NUMBER 4-75

10 in.

9 in.

8 in.



Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		
Items that required field or laboratory tests														
Bushels per acre	75.6	High 78.1					Median 71.7						Low 61.0	122-125
Percent of good corn	89.2	High 92.7					89.8						Low 85.8	126-129
Percent of moisture	18.9	Low 17.9					21.4						High 24.9	130-133
Percent of shelled corn	85.6	High 87.3					85.8						Low 84.5	134-137
Density of shelled corn	35.3	Heavy 35.6					34.2						Light 32.4	138-141
Germination index	91.6	High 93.8					87.1						Low 64.5	142-145
Disease index	76.2	Little 90.2					75.7						Much 58.3	146-149
Weight of ears	11.78	Heavy 15.07					12.75						Light 10.35	150-153
Yield Test Score Items observed by oldtime corn judges														
Density of ears +3	40.78	Heavy 42.03					Median 39.54						Light 37.58	154-157
Kernel development +3	64.1	Good 78.6					56.4						Poor 38.3	158-161
Indentation index +3	38.7	Smooth 16.5					44.7						Rough 87.3	162-165
Length of kernels -1	12.98	Long 15.72					13.41						Short 12.47	166-169
Width of kernels +1	7.91	Wide 9.01					7.92						Narrow 7.12	170-173
Thickness of kernels +1	4.22	Thick 4.42					4.21						Thin 3.89	174-177
Length of ears -3	8.42	Long 9.67					8.96						Short 8.25	178-181
Diameter of ears +1	20.83	Small 2.012					2.137						Large 2.304	182-185
No. of rows of kernels +1	17.2	Small 14.9					18.3						Large 20.9	186-189
Color of shank index -1	51.7	White 86.7					67.7						Dark 36.7	190-193
Condition of shank index +7	51.7	Smooth 58.3					38.4						Rough 18.3	194-197
Variation index +1	6.0	Uniform 3.0					7.0						Uneven 11.0	198-201
Total +16 ★ A relationship of each descriptive item to yield and to all other items														
202-205														

Sample No. 4-75, entered by

HERMAN LAMPE

Selected and grown 12 years by Mr. Lampe.
The source of his seed was not recorded. It was evidently a strain of Reid's Yellow Dent.
It was the earliest among the 12 high yielding samples.
It was a favorite among several neighbors for a few years after the test was completed.

This was one of the twelve high scoring samples. See page 203.

also page 217

DESCRIPTIVE DATA FOR SAMPLE NUMBER 5-30

10 in.

9 in.

8 in.



5
30

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														VOL. 2
Bushels per acre	75.4	High				Median						Low	122-	
		78.1				71.7					61.0	125		
Percent of good corn	89.9	High										Low	126-	
		92.7				89.8					85.8	129		
Percent of moisture	20.5	Low										High	130-	
		17.9				21.4					24.9	133		
Percent of shelled corn	85.7	High										Low	134-	
		87.3				85.8					84.5	137		
Density of shelled corn	34.5	Heavy										Light	138-	
		35.6				34.2					32.4	141		
Germination index	92.1	High										Low	142-	
		93.8				87.1					64.5	145		
Disease index	73.7	Little										Much	146-	
		90.2				75.7					58.3	149		
Weight of ears	12.33	Heavy										Light	150-	
		15.07				12.75					10.35	153		
Yield test score Items observed by oldtime corn judges														
Density of ears	+5 40.03	Heavy				Median						Light	154-	
		42.03				39.54					37.58	157		
Kernel development	+3 65.5	Good										Poor	158-	
		78.6				56.4					38.3	161		
Indentation index	-1 52.2	Smooth										Rough	162-	
		16.5				44.7					87.3	165		
Length of kernels	+1 13.45	Long										Short	166-	
		15.72				13.41					12.47	169		
Width of kernels	+1 7.90	Wide										Narrow	170-	
		9.01				7.92					7.12	173		
Thickness of kernels	+1 4.19	Thick										Thin	174-	
		4.42				4.21					3.89	177		
Length of ears	+1 8.96	Long										Short	178-	
		9.67				8.96					8.25	181		
Diameter of ears	+1 20.92	Small										Large	182-	
		2.012				2.137					2.304	185		
No. of rows of kernels	+1 17.9	Small										Large	186-	
		14.9				18.3					20.9	189		
Color of shank index	+1 68.3	White										Dark	190-	
		86.7				67.7					36.7	193		
Condition of shank index	+3 46.7	Smooth										Rough	194-	
		58.3				38.4					18.3	197		
Variation index	-1 9.0	Uniform										Uneven	198-	
		3.0				7.0					11.0	201		
Total +16														202-
★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														205

Sample No. 5-30, entered by

E.D. McCHESNEY

The time selected and grown by Mr. McChesney was not recorded.
Developed from seed obtained from a neighbor, A.H. Davison.
Mr. McChesney had succeeded in developing a strain of corn with ears longer than usual but smaller in diameter.
This was one of the 10 best Utility Type samples selected in 1923. Page 176-207.

This was one of the 12 high scoring samples. See page 203.
also page 217.

6

DESCRIPTIVE DATA FOR SAMPLE NUMBER 6-109

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		
Items that required field or laboratory tests														
Bushels per acre	75.4	High 78.1				Median 71.7						Low 61.0	122-125	
Percent of good corn	90.6	High 92.7				89.8						Low 85.8	126-129	
Percent of moisture	22.1	Low 17.9				21.4						High 24.9	130-133	
Percent of shelled corn	86.5	High 87.3				85.8						Low 84.5	134-137	
Density of shelled corn	33.4	Heavy 35.6				34.2						Light 32.4	138-141	
Germination index	86.4	High 93.8				87.1						Low 64.5	142-145	
Disease index	61.2	Little 90.2				75.7						Much 58.3	146-149	
Weight of ears	14.43	Heavy 15.07				12.75						Light 10.35	150-153	
Yield Feet Acre Items observed by oldtime corn judges														
Density of ears	-1 39.58	Heavy 42.03				Median 39.54						Light 37.58	154-158	
Kernel development	-3 51.7	Good 78.6				56.4						Poor 38.3	159-161	
Indentation index	-7 74.0	Smooth 16.5				44.7						Rough 87.3	162-165	
Length of kernels	-5 14.34	Long 15.72				13.41						Short 12.47	166-169	
Width of kernels	-3 7.59	Wide 9.01				7.92						Narrow 7.12	170-173	
Thickness of kernels	+1 4.21	Thick 4.42				4.21						Thin 3.89	174-177	
Length of ears	-1 9.17	Long 9.67				8.96						Short 8.25	178-181	
Diameter of ears	-3 2.250	Small 2.012				2.137						Large 2.304	182-185	
No. of rows of kernels	-5 20.1	Small 14.9				18.3						Large 20.9	186-189	
Color of shank index	+1 63.3	White 86.7				67.7						Dark 36.7	190-193	
Condition of shank index	-1 36.7	Smooth 58.3				38.4						Rough 18.3	194-197	
Variation index	-1 9.0	Uniform 3.0				7.0						Uneven 11.0	198-201	
Total -28														
★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														
202-205														

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203

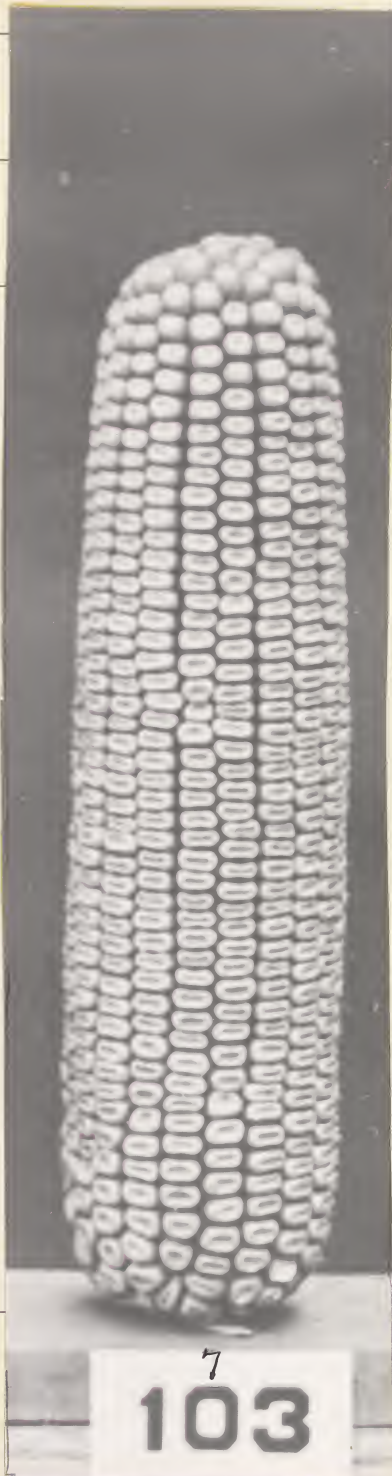
7

DESCRIPTIVE DATA FOR SAMPLE NUMBER 7-103

10 in.

9 in.

8 in.



Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		
Items that required field or laboratory tests														Vol. II
Bushels per acre	75.3	High 78.1				Median 71.7						Low 61.0	122-125	
Percent of good corn	90.2	High 92.7				89.8						Low 85.8	126-129	
Percent of moisture	21.1	Low 17.9				21.4						High 24.9	130-133	
Percent of shelled corn	85.5	High 87.3				85.8						Low 84.5	134-137	
Density of shelled corn	34.2	Heavy 35.6				34.2						Light 32.4	138-141	
Germination index	91.7	High 93.8				87.1						Low 64.5	142-145	
Disease index	81.9	Little 90.2				75.7						Much 58.3	146-149	
Weight of ears	12.32	Heavy 15.07				12.75						Light 10.35	150-153	
Yield test score Items observed by oldtime corn judges														
Density of ears	+3 40.61	Heavy 42.03				Median 39.54						Light 37.58	154-157	
Kernel development	-7 4.64	Good 78.6				56.4						Poor 38.3	158-161	
Indentation index	+3 35.2	Smooth 16.5				44.7						Rough 87.3	162-165	
Length of kernels	-1 13.06	Long 15.72				13.41						Short 12.47	166-169	
Width of kernels	-1 7.71	Wide 9.01				7.92						Narrow 7.12	170-173	
Thickness of kernels	+1 4.15	Thick 4.42				4.21						Thin 3.89	174-177	
Length of ears	+1 8.69	Long 9.67				8.96						Short 8.25	178-181	
Diameter of ears	+1 2.117	Small 2.012				2.137						Large 2.304	182-185	
No. of rows of kernels	+1 18.4	Small 14.9				18.3						Large 20.9	186-189	
Color of shank index	+1 65.0	White 86.7				67.7						Dark 36.7	190-193	
Condition of shank index	+1 40.0	Smooth 58.3				38.4						Rough 18.3	194-197	
Variation index	-1 8.0	Uniform 3.0				7.0						Uneven 11.0	198-201	
Total +2 ★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														202-205

Sample 7-103, selected by

J.D. SMITH

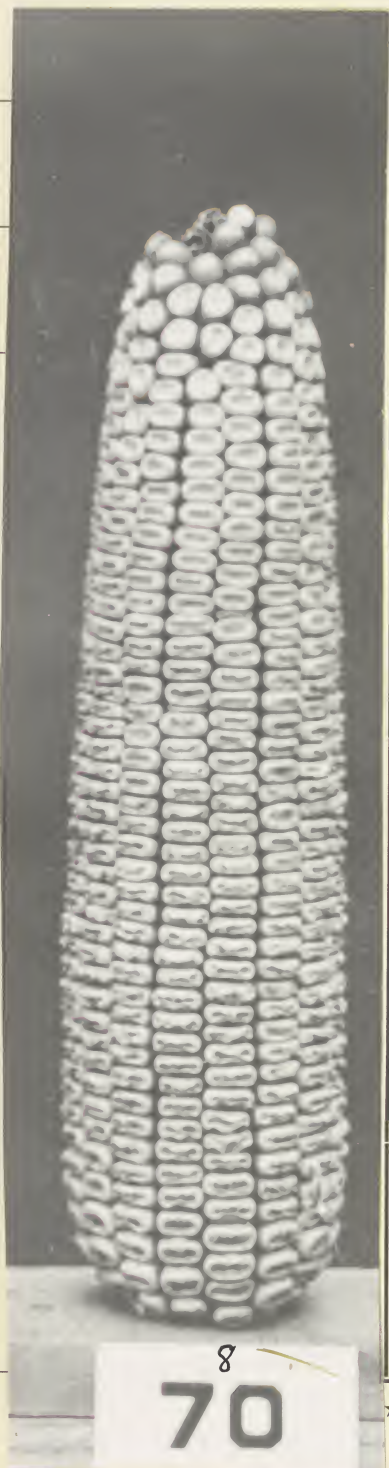
The years selected and grown by Mr. Smith were not recorded. The corn is remembered as one of the most uneven in size and shape of both ears and kernels. Henry A. Wallace who developed inbreds from several of the high-yielding samples reported, "I got some of my best inbreds from the J.D. Smith corn." See page 216.

DESCRIPTIVE DATA FOR SAMPLE NUMBER 8-70

10 in.

9 in.

8 in.



Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page	
		1	2	3	4	5	6	7	8	9	10				
Items that required field or laboratory tests															VOL. II
Bushels per acre	74.9	High 78.1					Median 71.7						Low 61.0	122-125	
Percent of good corn	89.9	High 92.7					89.8						Low 85.8	126-129	
Percent of moisture	20.1	Low 17.9	•				21.4						High 24.9	130-133	
Percent of shelled corn	85.7	High 87.3					85.8	•					Low 84.5	134-137	
Density of shelled corn	34.4	Heavy 35.6		•			34.2						Light 32.4	138-141	
Germination index	90.8	High 93.8		•			87.1						Low 64.5	142-145	
Disease index	74.0	Little 90.2					75.7		•				Much 58.3	146-149	
Weight of ears	12.33	Heavy 15.07					12.75		•				Light 10.35	150-153	
Yield test score Items observed by oldtime corn judges															
Density of ears	+5 40.12	Heavy 42.03		•			Median 39.54						Light 37.58	154-157	
Kernel development	+1 56.9	Good 78.6					56.4	•					Poor 38.3	158-161	
Indentation index	-1 49.7	Smooth 16.5					44.7		•				Rough 87.3	162-165	
Length of kernels	-1 13.17	Long 15.72					13.41			•			Short 12.47	166-169	
Width of kernels	+1 8.15	Wide 9.01		•			7.92						Narrow 7.12	170-173	
Thickness of kernels	+1 4.35	Thick 4.42		•			4.21						Thin 3.89	174-177	
Length of ears	+1 8.58	Long 9.67					8.96				•		Short 8.25	178-181	
Diameter of ears	+1 2.133	Small 2.012					2.137	•					Large 2.304	182-185	
No. of rows of kernels	+1 17.3	Small 14.9		•			18.3						Large 20.9	186-189	
Color of shank index	+1 66.7	White 86.7					37.7		•				Dark 36.7	190-193	
Condition of shank index	+1 46.7	Smooth 58.3		•			38.4						Rough 18.3	194-197	
Variation index	+1 6.0	Uniform 3.0	•				7.0						Uneven 11.0	198-201	
Total +12 ★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.															202-205

★ *Total +12*
A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.

Sample No. 8-70, entered by

L. J. WADSWORTH

Selected and grown 3 years by Mr. Wadsworth.
His seed had been obtained from William Parkhouse,
a neighbor. See page 217.

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158-

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166-

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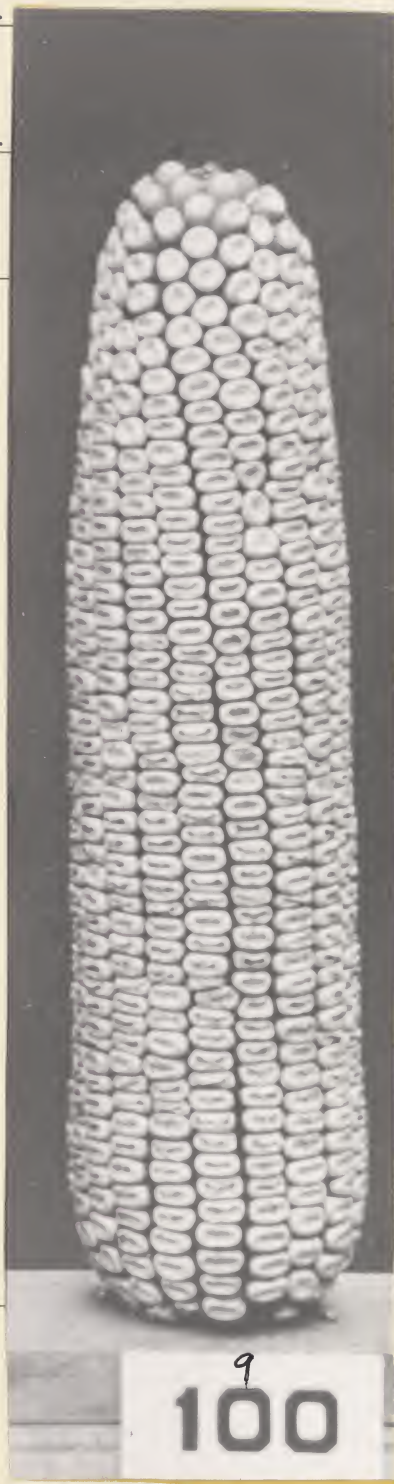
9

DESCRIPTIVE DATA FOR SAMPLE NUMBER 9-100

10 in.

9 in.

8 in.



Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		
Items that required field or laboratory tests													VOL. II	
Bushels per acre	74.8	High 78.1				Median 71.7						Low 61.0	122-125	
Percent of good corn	88.4	High 92.7				89.8						Low 85.8	126-129	
Percent of moisture	21.5	Low 17.9				21.4						High 24.9	130-133	
Percent of shelled corn	85.7	High 87.3				85.8						Low 84.5	134-137	
Density of shelled corn	34.8	Heavy 35.6				34.2						Light 32.4	138-141	
Germination index	87.6	High 93.8				87.1						Low 64.5	142-145	
Disease index	71.1	Little 90.2				75.7						Much 58.3	146-149	
Weight of ears	13.58	Heavy 15.07				12.75						Light 10.35	150-153	
Yield test acres Items observed by oldtime corn judges														
Density of ears	-1 39.25	Heavy 42.03				Median 39.54						Light 37.58	154-157	
Kernel development	+3 63.8	Good 78.6				56.4						Poor 38.3	158-161	
Indentation index	+3 38.0	Smooth 16.5				44.7						Rough 87.3	162-165	
Length of kernels	+1 13.45	Long 15.72				13.41						Short 12.47	166-169	
Width of kernels	+1 7.92	Wide 9.01				7.92						Narrow 7.12	170-173	
Thickness of kernels	+1 4.17	Thick 4.42				4.21						Thin 3.89	174-177	
Length of ears	+1 8.96	Long 9.67				8.96						Short 8.25	178-181	
Diameter of ears	-3 2.217	Small 2.012				2.137						Large 2.304	182-185	
No. of rows of kernels	-1 19.1	Small 14.9				18.3						Large 20.9	186-189	
Color of shank index	-1 56.7	White 86.7				67.7						Dark 36.7	190-193	
Condition of shank index	-1 31.7	Smooth 58.3				38.4						Rough 18.3	194-197	
Variation index	+1 6.0	Uniform 3.0				7.0						Uneven 11.0	198-201	
Total +4 ★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.													202-205	

Sample No. 9-100, entered by

JO MARTIN

Selected and grown 5 years by Mr. Martin.
His seed was obtained from his father, John Martin,
whose entry, No. 10-112, is reported next to this.
See pages 210 and 211.

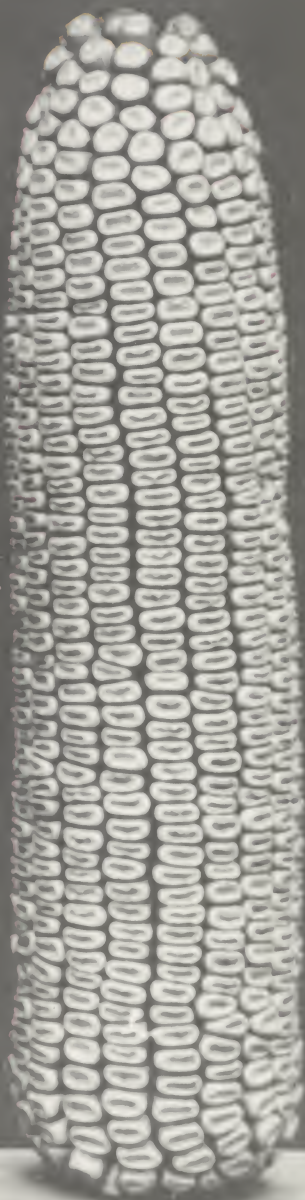
10

DESCRIPTIVE DATA FOR SAMPLE NUMBER 10-112

10 in.

9 in.

8 in.

10
112

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		
Items that required field or laboratory tests													VOL. II	
Bushels per acre	74.7	High 78.1 Low				Median 71.7						Low 61.0	122-125	
Percent of good corn	89.2	High 92.7 Low				89.8						Low 85.8	126-129	
Percent of moisture	21.5	High 17.9 Low				21.4						High 24.9	130-133	
Percent of shelled corn	86.6	High 87.3 Heavy				85.8						Low 84.5	134-137	
Density of shelled corn	34.0	Heavy 35.6 High				34.2						Light 32.4	138-140	
Germination index	90.7	High 93.8 Little				87.1						Low 64.5	142-145	
Disease index	67.6	Little 90.2 Heavy				75.7						Much 58.3	146-149	
Weight of ears	13.03	Heavy 15.07 High				12.75						Light 10.35	150-153	
yield test score Items observed by oldtime corn judges														
Density of ears	-5 38.02	Heavy 42.03 Good				Median 39.54						Light 37.58	154-157	
Kernel development	+1 52.4	Good 78.6 Smooth				56.4						Poor 38.3	158-161	
Indentation index	+3 37.5	Smooth 16.5 Long				44.7						Rough 87.3	162-165	
Length of kernels	+1 13.61	Long 15.72 Wide				13.41						Short 12.47	166-169	
Width of kernels	+1 8.22	Wide 9.01 Thick				7.92						Narrow 7.12	170-173	
Thickness of kernels	+1 4.17	Thick 4.42 Long				4.21						Thin 3.89	174-177	
Length of ears	+1 9.08	Long 9.67 Small				8.96						Short 8.25	178-181	
Diameter of ears	-3 2.192	Small 2.012 Small				2.137						Large 2.304	182-185	
No. of rows of kernels	+1 18.2	Small 14.9 White				18.3						Large 20.9	186-189	
Color of shank index	+1 71.7	White 86.7 Smooth				67.7						Dark 36.7	190-193	
Condition of shank index	+3 46.7	Smooth 58.3 Uniform				38.4						Rough 18.3	194-197	
Variation index	-1 9.0	Uniform 3.0 High				7.0						Uneven 11.0	198-201	
★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														

Sample No. 10-112, entered by

JOHN MARTIN

Years selected and grown by Mr. Martin were not recorded, but my memory is that he had grown it there in Woodford County for many years. See page 217.

11

DESCRIPTIVE DATA FOR SAMPLE NUMBER 11-54

10 in.

9 in.

8 in.



Descriptive items	Value for this sample	Decil group										Poorest or least favored	See page	
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests													Vol. II	
Bushels per acre	74.5	High 78.1				Median 71.7						Low 61.0	122-125	
Percent of good corn	90.3	High 92.7				89.8						Low 85.8	126-129	
Percent of moisture	22.3	Low 17.9				21.4						High 24.9	130-133	
Percent of shelled corn	86.0	High 87.3				85.8						Low 84.5	134-137	
Density of shelled corn	35.2	Heavy 35.6				34.2						Light 32.4	138-141	
Germination index	80.5	High 93.8				87.1						Low 64.5	142-145	
Disease index	70.7	Little 90.2				75.7						Much 58.3	146-149	
Weight of ears	13.57	Heavy 15.07				12.75						Light 10.35	150-153	
Yield test score Items observed by oldtime corn judges														
Density of ears	+3 41.99	Heavy 42.03				Median 39.54						Light 37.58	154-157	
Kernel development	+3 66.4	Good 78.6				56.4						Poor 38.3	158-161	
Indentation index	+3 32.0	Smooth 16.5				44.7						Rough 87.3	162-165	
Length of kernels	+1 13.21	Long 15.72				13.41						Short 12.47	166-169	
Width of kernels	+1 7.94	Wide 9.01				7.92						Narrow 7.12	170-173	
Thickness of kernels	+1 4.28	Thick 4.42				4.21						Thin 3.89	174-177	
Length of ears	-1 9.33	Long 9.67				8.96						Short 8.25	178-181	
Diameter of ears	+1 2.100	Small 2.012				2.137						Large 2.304	182-185	
No. of rows of kernels	+1 18.1	Small 14.9				18.3						Large 20.9	186-189	
Color of shank index	+1 66.7	White 86.7				67.7						Dark 36.7	190-193	
Condition of shank index	+7 51.7	Smooth 58.3				38.4						Rough 18.3	194-197	
Variation index	+1 7.0	Uniform 3.0				7.0						Uneven 11.0	198-201	
Total +22 ★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														202-205

Sample No. 11-54, entered by

YORDY BROTHERS

Selected and grown 13 years by the Yordy Brothers. The seed was obtained from Theodore Orth, a neighbor. Yordy Brothers' sample was selected in 1923 as one of ten samples that were most typical of the Illinois Utility Type corn. Page 206. This corn was also one of the 10 high "yield-test-type" score samples. Page 202. Also 216

12

DESCRIPTIVE DATA FOR SAMPLE NUMBER 12-97

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		
Items that required field or laboratory tests														VOL. II
Bushels per acre	74.3	High 78.1					Median 71.7						Low 61.0	122-125
Percent of good corn	89.8	High 92.7					89.8						Low 85.8	126-129
Percent of moisture	20.5	Low 17.9					21.4						High 24.9	130-133
Percent of shelled corn	86.0	High 87.3					85.8						Low 84.5	134-137
Density of shelled corn	34.3	Heavy 35.6					34.2						Light 32.4	138-141
Germination index	93.4	High 93.8					87.1						Low 64.5	142-145
Disease index	69.3	Little 90.2					75.7						Much 58.3	146-149
Weight of ears	13.08	Heavy 15.07					12.75						Light 10.35	150-153
Yield test Pears Items observed by oldtime corn judges														
Density of ears	+5 40.31	Heavy 42.03					Median 39.54						Light 37.58	154-157
Kernel development	+1 55.0	Good 78.6					56.4						Poor 38.3	158-161
Indentation index	-1 59.0	Smooth 16.5					44.7						Rough 87.3	162-165
Length of kernels	+3 13.77	Long 15.72					13.41						Short 12.47	166-169
Width of kernels	+1 8.21	Wide 9.01					7.92						Narrow 7.12	170-173
Thickness of kernels	+1 4.12	Thick 4.42					4.21						Thin 3.89	174-177
Length of ears	+1 8.08	Long 9.67					8.96						Short 8.25	178-181
Diameter of ears	+1 2.133	Small 2.012					2.137						Large 2.304	182-185
No. of rows of kernels	+1 16.7	Small 14.9					18.3						Large 20.9	186-189
Color of shank index	-1 60.0	White 86.7					67.7						Dark 36.7	190-193
Condition of shank index	-1 28.3	Smooth 58.3					38.4						Rough 18.3	194-197
Variation index	+1 7.0	Uniform 3.0					7.0						Uneven 11.0	198-201
Total +12														202-205
★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														

Sample NO. 12-97, entered by

Peter R. SCHERTZ

Selected and grown only one year by Mrs. Schertz.
 Seed was obtained from Sommers Brothers of Pekin, Illinois.
 Sommers Brothers' corn won the sweepstakes prize at the
 Second Illinois Utility Type Corn Show. Page 178, 206.
 The Utility Prize seed planted beside Woodford County high
 yielding samples in 1922 was obtained from Sommers Brothers.

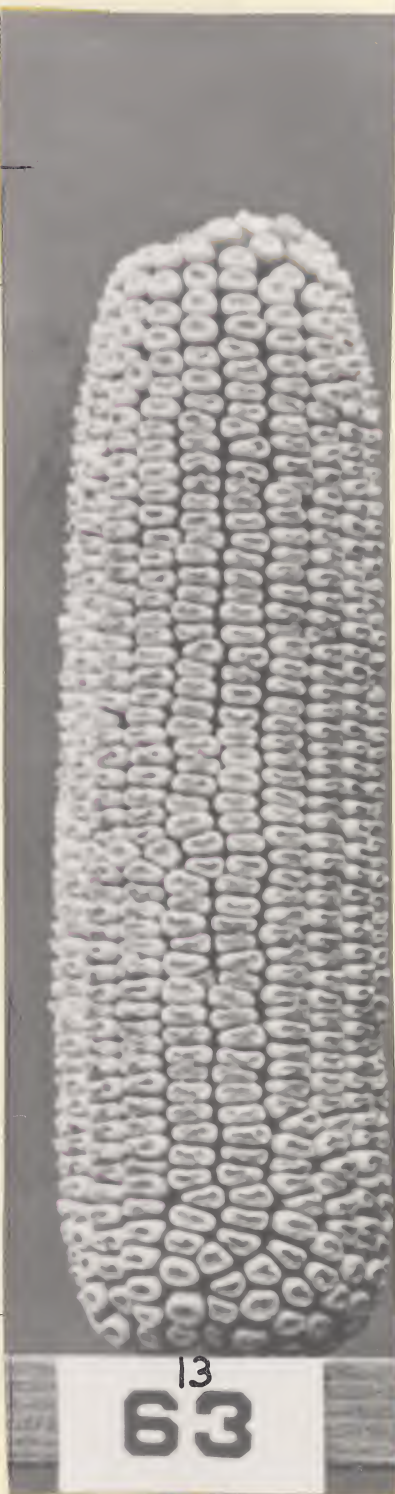
13

DESCRIPTIVE DATA FOR SAMPLE NUMBER 13-63

10 in.

9 in.

8 in.



Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		

Items that required field or laboratory tests

Vol. II

Bushels per acre	74.1	High					Median						Low	122-125
		78.1					71.7						61.0	
Percent of good corn	86.7	High											Low	126-129
		92.7					89.8						85.8	
Percent of moisture	20.6	Low											High	130-133
		17.9					21.4						24.9	
Percent of shelled corn	86.2	High											Low	134-137
		87.3					85.8						84.5	
Density of shelled corn	34.7	Heavy											Light	138-141
		35.6					34.2						32.4	
Germination index	81.9	High											Low	142-145
		93.8					87.1						64.5	
Disease index	77.6	Little											Much	146-149
		90.2					75.7						58.3	
Weight of ears	13.33	Heavy											Light	150-153
		15.07					12.75						10.35	

Yield test
per acre

Items observed by oldtime corn judges

Density of ears	-3	32.75	Heavy				Median						Light	154-158
		42.03					39.54						37.58	
Kernel development	+1	56.9	Good										Poor	158-161
		78.6					56.4						38.3	
Indentation index	-1	49.0	Smooth										Rough	162-165
		16.5					44.7						87.3	
Length of kernels	+3	13.82	Long										Short	166-169
		15.72					13.41						12.47	
Width of kernels	-5	7.35	Wide										Narrow	170-173
		9.01					7.92						7.12	
Thickness of kernels	+1	4.04	Thick										Thin	174-177
		4.42					4.21						3.89	
Length of ears	+1	8.62	Long										Short	178-181
		9.67					8.96						8.25	
Diameter of ears	-3	2.254	Small										Large	182-185
		2.012					2.137						2.304	
No. of rows of kernels	-5	20.1	Small										Large	186-189
		14.9					18.3						20.9	
Color of shank index	-1	61.7	White										Dark	190-193
		86.7					67.7						36.7	
Condition of shank index	+1	41.7	Smooth										Rough	194-197
		58.3					38.4						18.3	
Variation index	+1	7.0	Uniform										Uneven	198-201
		3.0					7.0						11.0	

★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.

Sample 13-63, entered by

R.S. BOYD

Selected and grown two years by W.H. Smith, Eureka, Illinois.
His seed was obtained from W.H. Smith, Eureka, Illinois.

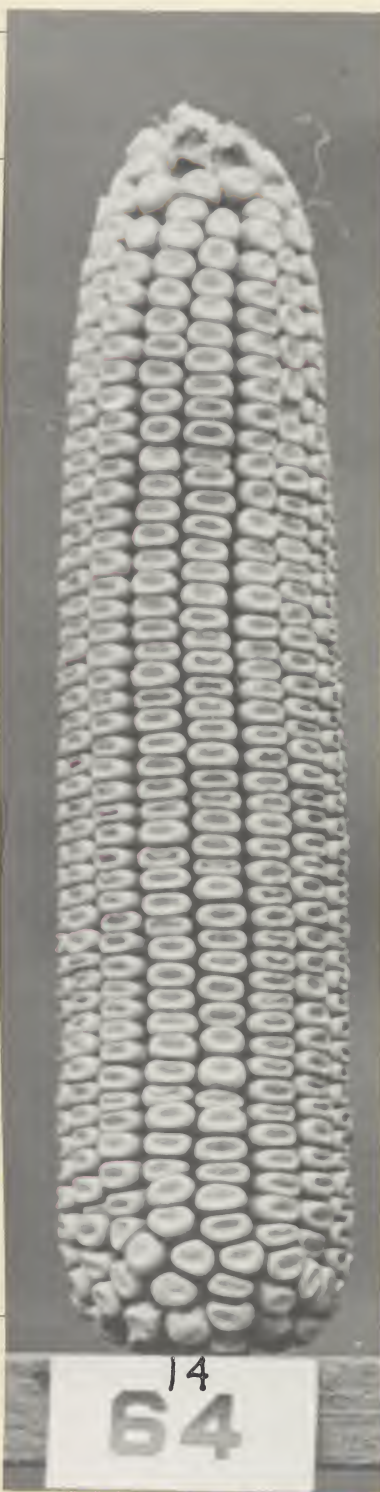
14

DESCRIPTIVE DATA FOR SAMPLE NUMBER 14-64

10 in.

9 in.

8 in.



Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														VOL. II
Bushels per acre	74.0	High					Median					Low	122-125	
		78.1	•					71.7				61.0		
Percent of good corn	91.5	High										Low	126-129	
		92.7	•					89.8				85.8		
Percent of moisture	20.8	Low				•						High	130-133	
		17.9						21.4				24.9		
Percent of shelled corn	84.9	High										Low	134-137	
		87.3						85.8				84.5		
Density of shelled corn	35.1	Heavy										Light	138-141	
		35.6	•					34.2				32.4		
Germination index	92.6	High										Low	142-145	
		93.8	•					87.1				64.5		
Disease index	76.7	Little				•						Much	146-149	
		90.2						75.7				58.3		
Weight of ears	139.3	Heavy										Light	150-153	
		15.07	•					12.75				10.35		
Yield test score Items observed by oldtime corn judges														
Density of ears	+3 40.97	Heavy					Median					Light	154-157	
		42.03	•					39.54				37.58		
Kernel development	+3 67.1	Good										Poor	158-161	
		78.6	•					56.4				38.3		
Indentation index	+3 34.0	Smooth		•								Rough	162-165	
		16.5						44.7				87.3		
Length of kernels	+1 13.25	Long								•		Short	166-169	
		15.72						13.41				12.47		
Width of kernels	+1 8.32	Wide		•								Narrow	170-173	
		9.01						7.92				7.12		
Thickness of kernels	+1 4.33	Thick										Thin	174-177	
		4.42	•					4.21				3.89		
Length of ears	-1 9.33	Long										Short	178-181	
		9.67	•					8.96				8.25		
Diameter of ears	+1 2.154	Small								•		Large	182-185	
		2.012						2.137				2.304		
No. of rows of kernels	+1 17.3	Small		•								Large	186-189	
		14.9						18.3				20.9		
Color of shank index	+1 68.3	White										Dark	190-193	
		86.7					•	67.7				36.7		
Condition of shank index	+3 48.3	Smooth		•								Rough	194-197	
		58.3						38.4				18.3		
Variation index	+1 7.0	Uniform										Uneven	198-201	
		3.0					•	7.0				11.0		
Total +18														202-205
★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														206

Sample No. 14-64, entered by

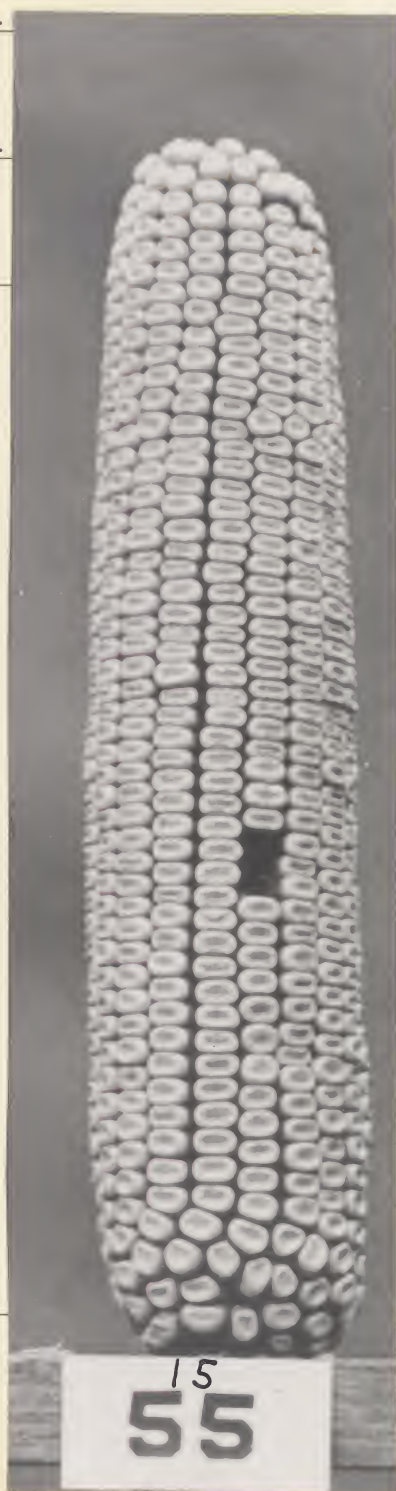
GEORGE SHUMAN

Selected and grown for six years by Mr. Shuman. His seed was obtained from the Funk Brothers Seed Company of Bloomington, Illinois. The "Disease Free" seed planted beside several Woodford County high yielding samples in 1922 was obtained from the Funk Brothers Seed Company. Mr. Shuman's sample was one of the ten high "yield-test-acre" samples. Page 202-203.

10 in.

9 in.

8 in.



15
55

Descriptive items	Value for this sample	Decil group										See page
		Best or most favored									Poorest or least favored	
		1	2	3	4	5	6	7	8	9	10	
Items that required field or laboratory tests												
Bushels per acre	74.0	High 78.1	•			Median 71.7					Low 61.0	122-125
Percent of good corn	90.0	High 92.7				• 89.8					Low 85.8	126-129
Percent of moisture	22.5	Low 17.9				21.4		•			High 24.9	130-133
Percent of shelled corn	86.2	High 87.3	•			85.8					Low 84.5	134-137
Density of shelled corn	35.2	Heavy 35.6	•			34.2					Light 32.4	138-141
Germination index	84.8	High 93.8		•		87.1					Low 64.5	142-145
Disease index	75.2	Little 90.2				75.7	•				Much 58.3	146-149
Weight of ears	13.27	Heavy 15.07		•		12.75					Light 10.35	150-153
Yield test score												
Items observed by oldtime corn judges												
Density of ears	+3 42.03	Heavy 42.03	•			Median 39.54					Light 37.58	154-157
Kernel development	+3 69.3	Good 78.6	•			56.4					Poor 38.3	158-161
Indentation index	+3 38.0	Smooth 16.5		•		44.7					Rough 87.3	162-165
Length of kernels	+1 13.58	Long 15.72			•	13.41					Short 12.47	166-169
Width of kernels	+1 8.10	Wide 9.01		•		7.92					Narrow 7.12	170-173
Thickness of kernels	+1 4.28	Thick 4.42		•		4.21					Thin 3.89	174-177
Length of ears	+1 9.08	Long 9.67			•	8.96					Short 8.25	178-181
Diameter of ears	+1 2.104	Small 2.012		•		2.137					Large 2.304	182-185
No. of rows of kernels	+1 17.7	Small 14.9			•	18.3					Large 20.9	186-189
Color of shank index	-1 76.7	White 86.7	•			67.7					Dark 36.7	190-193
Condition of shank index	+7 56.7	Smooth 58.3	•			38.4					Rough 18.3	194-197
Variation index	+1 4.0	Uniform 3.0	•			7.0					Uneven 11.0	198-201
Total +22												
★ A relationship of each descriptive item to yield and to all other items												

Sample No. 15-55, entered by

HAROLD WILEY

Selected and grown only one year by Mr. Wiley.
Seed was obtained from the Yordy Brothers. See
No. 11-54.

Mr. Wiley's seed won sweepstakes prize at the First Illinois Utility Corn Show at Galesburg, Illinois, in 1920. Page 476, 206

This seed was also one of the ten high⁴ yield-test-score samples. Page ~~374~~ 201

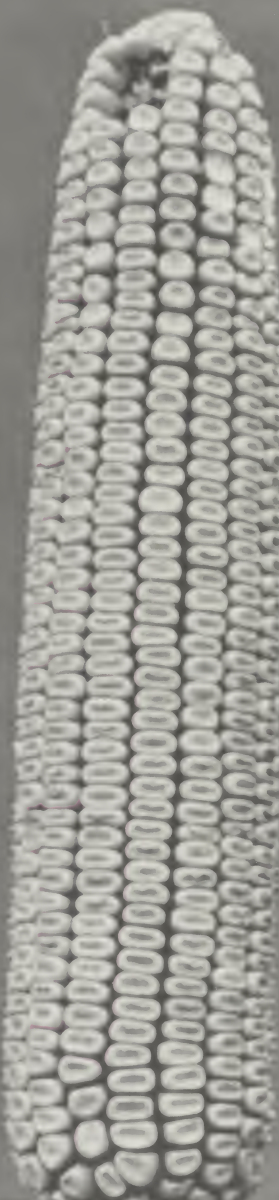
16

DESCRIPTIVE DATA FOR SAMPLE NUMBER 16-45

10 in.

9 in.

8 in.

16
45

Descriptive items	Value for this sample	Best or most favored										Decil group	Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														
Bushels per acre	73.8	High 78.1				Median 71.7						Low 61.0	122-125	
Percent of good corn	89.1	High 92.7				89.8						Low 85.8	126-129	
Percent of moisture	18.8	Low 17.9				21.4						High 24.9	130-133	
Percent of shelled corn	85.2	High 87.3				85.8						Low 84.5	134-137	
Density of shelled corn	33.9	Heavy 35.6				34.2						Light 32.4	138-141	
Germination index	90.4	High 93.8				87.1						Low 64.5	142-145	
Disease index	85.2	Little 90.2				75.7						Much 58.3	146-149	
Weight of ears	12.53	Heavy 15.07				12.75						Light 10.35	150-153	
Yield Test score Items observed by oldtime corn judges														
Density of ears	-1 39.54	Heavy 42.03				Median 39.54						Light 37.58	154-157	
Kernel development	+1 62.1	Good 78.6				56.4						Poor 38.3	158-161	
Indentation index	+1 44.2	Smooth 16.5				44.7						Rough 87.3	162-165	
Length of kernels	+1 13.43	Long 15.72				13.41						Short 12.47	166-169	
Width of kernels	+1 8.49	Wide 9.01				7.92						Narrow 7.12	170-173	
Thickness of kernels	+1 4.23	Thick 4.42				4.21						Thin 3.89	174-177	
Length of ears	+1 9.08	Long 9.67				8.96						Short 8.25	178-181	
Diameter of ears	+1 2.108	Small 2.012				2.137						Large 2.304	182-185	
No. of rows of kernels	+1 16.5	Small 14.9				18.3						Large 20.9	186-189	
Color of shank index	-1 73.3	White 86.7				67.7						Dark 36.7	190-193	
Condition of shank index	-1 38.3	Smooth 58.3				38.4						Rough 18.3	194-197	
Variation index	+1 6.0	Uniform 3.0				7.0						Uneven 11.0	198-201	
Total +6														
★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														
202-205														

Sample No. 16-45, entered by

GEORGE HINRICH

Selected and grown for 17 years by Mr. Hinrichs.
 Seed was obtained from L.C. Brown of La Grange, Illinois.
 This sample was one of 10 selected in 1923 as most
 typical of the Illinois Utility Type corn. Page 176, 206.

17

DESCRIPTIVE DATA FOR SAMPLE NUMBER 17-27

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		

Items that required field or laboratory tests

Vol. II

Bushels per acre	73.8	High					Median						Low	122-125
		78.1	•				71.7						61.0	
Percent of good corn	90.2	High				•							Low	126-129
		92.7					89.8						85.8	
Percent of moisture	21.5	Low						•					High	130-133
		17.9					21.4						24.9	
Percent of shelled corn	86.1	High			•								Low	134-137
		87.3					85.8						84.5	
Density of shelled corn	34.3	Heavy				•							Light	138-141
		35.6					34.2						32.4	
Germination index	89.5	High				•							Low	142-145
		93.8					87.1						64.5	
Disease index	75.7	Little						•					Much	146-149
		90.2					75.7						58.3	
Weight of ears	12.80	Heavy				•							Light	150-153
		15.07					12.75						10.35	

Yield test score

Items observed by oldtime corn judges

Density of ears	+5 39.83	Heavy				•	Median						Light	154-157
		42.03					39.54						37.58	
Kernel development	+1 63.3	Good				•							Poor	158-161
		78.6					56.4						38.3	
Indentation index	+1 39.5	Smooth				•							Rough	162-165
		16.5					44.7						87.3	
Length of kernels	+1 13.33	Long						•					Short	166-169
		15.72					13.41						12.47	
Width of kernels	+1 8.54	Wide				•							Narrow	170-173
		9.01					7.92						7.12	
Thickness of kernels	+1 4.17	Thick							•				Thin	174-177
		4.42					4.21						3.89	
Length of ears	+1 8.96	Long						•					Short	178-181
		9.67					8.96						8.25	
Diameter of ears	+1 2.137	Small						•					Large	182-185
		2.012					2.137						2.304	
No. of rows of kernels	+1 17.1	Small				•							Large	186-189
		14.9					18.3						20.9	
Color of shank index	-1 45.0	White											Dark	190-193
		86.7					67.7						36.7	
Condition of shank index	-1 38.3	Smooth						•					Rough	194-197
		58.3					38.4						18.3	
Variation index	+1 7.0	Uniform				•							Uneven	198-201
		3.0					7.0						11.0	

★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.

Sample No. 17-27, entered by

FRANK DAMMAN

There was no record as to who was selected and grown or of the source of the seed. This sample was one of ten selected in 1923 as most typical of the Illinois Utility Type of corn. Page 176, 206

17
27

18

DESCRIPTIVE DATA FOR SAMPLE NUMBER 18-46

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														
Bushels per acre	73.7	High					Median					Low	122-	
		78.1				71.7					61.0	125-		
Percent of good corn	92.0	High										Low	126-	
		92.7				89.8					85.8	129		
Percent of moisture	21.8	Low										High	130-	
		17.9				21.4					24.9	133		
Percent of shelled corn	85.8	High										Low	134-	
		87.3				85.8					84.5	137		
Density of shelled corn	34.1	Heavy										Light	138-	
		35.6				34.2					32.4	141		
Germination index	80.7	High										Low	142-	
		93.8				87.1					64.5	145		
Disease index	89.3	Little										Much	146-	
		90.2				75.7					58.3	149		
Weight of ears	13.55	Heavy										Light	150-	
		15.07				12.75					10.35	153		
Yield Kernel Score Items observed by oldtime corn judges														
Density of ears	+3 44.35	Heavy					Median					Light	154-	
		42.03				39.54					37.58	157		
Kernel development	+3 67.2	Good										Poor	158-	
		78.6				56.4					38.3	161		
Indentation index	-1 57.2	Smooth										Rough	162-	
		16.5				44.7					87.3	165		
Length of kernels	+3 14.10	Long										Short	166-	
		15.72				13.41					12.47	169		
Width of kernels	+1 8.65	Wide										Narrow	170-	
		9.01				7.92					7.12	173		
Thickness of kernels	+1 4.16	Thick										Thin	174-	
		.42				4.21					3.89	177		
Length of ears	-1 9.17	Long										Short	178-	
		9.67				8.96					8.25	181		
Diameter of ears	+1 2.133	Small										Large	182-	
		2.012				2.137					2.304	185		
No. of rows of kernels	+1 16.4	Small										Large	186-	
		14.9				18.3					20.9	189		
Color of shank index	+1 71.7	White										Dark	190-	
		86.7				67.7					36.7	193		
Condition of shank index	+1 41.7	Smooth										Rough	194-	
		58.3				38.4					18.3	197		
Variation index	+1 5.0	Uniform										Uneven	198-	
		3.0				7.0					11.0	201		
Total +14														
★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														
202-														
205														

★ Total +14.
A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.

Sample No. 18-46, entered by

S.E. UNSICKER

Selected and grown by Mr. Unsicker for three years. His seed was obtained from the Sommers Brothers of Pekin, Illinois. As already indicated in the record for sample No. 12-97, the Sommers Brothers sample won the sweepstakes prize at the Second Illinois Utility Corn Show. Page 209.

18
46

19

DESCRIPTIVE DATA FOR SAMPLE NUMBER 19-67

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														122-125
Bushels per acre	73.7	High					Median						Low	122-125
		78.1					71.7						61.0	
Percent of good corn	89.1	High											Low	126-129
		92.7					89.8						85.8	
Percent of moisture	22.1	Low											High	130-133
		17.9					21.4						24.9	
Percent of shelled corn	85.3	High											Low	134-137
		87.3					85.8						84.5	
Density of shelled corn	34.2	Heavy											Light	138-141
		35.6					34.2						32.4	
Germination index	88.1	High											Low	142-145
		93.8					87.1						64.5	
Disease index	68.8	Little											Much	146-149
		90.2					75.7						58.3	
Weight of ears	12.75	Heavy											Light	150-153
		15.07					12.75						10.35	
Yield test score Items observed by oldtime corn judges														154-157
Density of ears	-1 39.15	Heavy					Median						Light	154-157
		42.03					39.54						37.58	
Kernel development	+1 60.7	Good											Poor	158-161
		78.6					56.4						38.3	
Indentation index	-1 31.0	Smooth											Rough	162-165
		16.5					44.7						87.3	
Length of kernels	-1 12.94	Long											Short	166-169
		15.72					13.41						12.47	
Width of kernels	-5 7.56	Wide											Narrow	170-173
		9.01					7.92						7.12	
Thickness of kernels	+1 4.16	Thick											Thin	174-177
		4.42					4.21						3.89	
Length of ears	+1 8.83	Long											Short	178-181
		9.67					8.96						8.25	
Diameter of ears	+1 2.167	Small											Large	182-185
		2.012					2.137						2.304	
No. of rows of kernels	-5 19.7	Small											Large	186-189
		14.9					18.3						20.9	
Color of shank index	+1 66.7	White											Dark	190-193
		86.7					67.7						36.7	
Condition of shank index	-1 35.0	Smooth											Rough	194-197
		58.3					38.4						18.3	
Variation index	+1 7.0	Uniform											Uneven	198-201
		3.0					7.0						11.0	
* A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														202-205

Sample No. 19-67, entered by

E. T. BENSON

Selected and grown 10 years by Mr. Benson.
Seed was developed from a mixture of "Funk's Reids
and "Iowa Learning". Learning corn was a large,
deep-grained, orange-yellow variety which was
popular in Iowa.

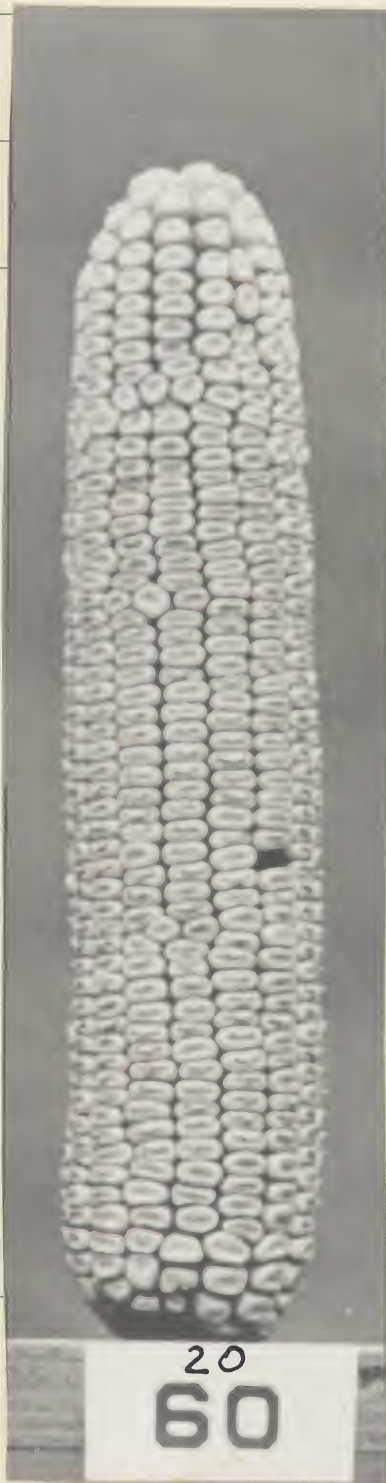
20

DESCRIPTIVE DATA FOR SAMPLE NUMBER 20-60

10 in.

9 in.

8 in.



Descriptive items	Value for this sample	Decil group										Poorest or least favored	See Page	
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														
Bushels per acre	73.6	High					Median					Low	122-	
		78.1	•				71.7					61.0	125	
Percent of good corn	89.8	High										Low	126-	
		92.7				•	89.8					85.8	127	
Percent of moisture	20.4	Low										High	130-	
		17.9	•				21.4					24.9	133	
Percent of shelled corn	86.2	High										Low	134-	
		87.3		•			85.8					84.5	137	
Density of shelled corn	34.5	Heavy										Light	138-	
		35.6		•			34.2					32.4	141	
Germination index	82.6	High										Low	142-	
		93.8					87.1				•	64.5	145	
Disease index	76.4	Little										Much	146-	
		90.2				•	75.7					58.3	149	
Weight of ears	12.18	Heavy										Light	150-	
		15.07					12.75			•		10.35	153	
Yield Test score Items observed by oldtime corn judges														
Density of ears +5	40.22	Heavy					Median					Light	154-	
		42.03		•			39.54					37.58	157	
Kernel development +1	56.2	Good										Poor	158-	
		78.6					56.4					38.3	161	
Indentation index +1	41.5	Smooth										Rough	162-	
		16.5				•	44.7					87.3	165	
Length of kernels -1	13.15	Long										Short	166-	
		15.72					13.41				•	12.47	169	
Width of kernels +1	8.05	Wide										Narrow	170-	
		9.01				•	7.92					7.12	173	
Thickness of kernels +1	4.05	Thick										Thin	174-	
		4.42					4.21					3.89	177	
Length of ears +1	8.92	Long										Short	178-	
		9.67					8.96					8.25	181	
Diameter of ears +1	2.079	Small										Large	182-	
		2.012	•				2.137					2.304	185	
No. of rows of kernels +1	17.1	Small										Large	186-	
		14.9	•				18.3					20.9	189	
Color of shank index +1	63.3	White										Dark	190-	
		86.7					67.7			•		36.7	193	
Condition of shank index -1	36.7	Smooth										Rough	194-	
		58.3					38.4			•		18.3	197	
Variation index +1	7.0	Uniform										Uneven	198-	
		3.0				•	7.0					11.0	201	
Total +12														
★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														
202-205														

Sample No. 20-60, entered by

S. E. SCHERTZ

Selected and grown 10 years by Mr. Schertz. His seed was obtained from the Woodford County Farm. Mr. Schertz's sample was selected in 1923 as one of the ten samples most typical of the Illinois Utility Corn. Page 176. 207. also page 217

21

DESCRIPTIVE DATA FOR SAMPLE NUMBER 21-44

10 in.

9 in.

8 in.



Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														
Bushels per acre	73.6	High					Median					Low	122-	
		78.1	•			71.7					61.0	125		
Percent of good corn	90.0	High										Low	126-	
		92.7				89.8					85.8	129		
Percent of moisture	21.5	Low										High	130-	
		17.9				21.4					24.9	133		
Percent of shelled corn	86.2	High										Low	134-	
		87.3	•			85.8					84.5	137		
Density of shelled corn	34.3	Heavy										Light	138-	
		35.6				34.2					32.4	141		
Germination index	84.5	High										Low	142-	
		93.8				87.1				•	64.5	145		
Disease index	85.0	Little										Much	146-	
		90.2	•			75.7					58.3	149		
Weight of ears	12.70	Heavy										Light	150-	
		15.07				12.75					10.35	153		
Yield test score Items observed by oldtime corn judges														
Density of ears	+5 40.28	Heavy					Median					Light	154-	
		42.03		•		39.54					37.58	157		
Kernel development	+1 53.8	Good										Poor	158-	
		78.6				56.4			•		38.3	161		
Indentation index	-1 62.2	Smooth										Rough	162-	
		16.5				44.7				•	87.3	165		
Length of kernels	+3 13.84	Long										Short	166-	
		15.72	•			13.41					12.47	169		
Width of kernels	+1 7.92	Wide										Narrow	170-	
		9.01				7.92					7.12	173		
Thickness of kernels	+1 4.07	Thick										Thin	174-	
		4.42				4.21				•	3.89	177		
Length of ears	+1 8.96	Long										Short	178-	
		9.67				8.96					8.25	181		
Diameter of ears	+1 2.117	Small										Large	182-	
		2.012			•	2.137					2.304	185		
No. of rows of kernels	+1 18.3	Small										Large	186-	
		14.9				18.3					20.9	189		
Color of shank index	+1 65.0	White										Dark	190-	
		86.7				67.7				•	36.7	193		
Condition of shank index	-1 33.3	Smooth										Rough	194-	
		58.3				38.1				•	18.3	197		
Variation index	+1 6.0	Uniform										Uneven	198-	
		3.0	•			7.0					11.0	201		
Total +14 ★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														
202-														
205														

21
44

Sample No. 21-44, entered by

Frank M. HOCK

Selected and grown 8 years by Mr. Hock. His seed was obtained from the Funk Brothers Seed Company.

The Woodford County Corn Yield Test was conducted on Mr. Hock's farm in the northeast part of the county all three years of the test.

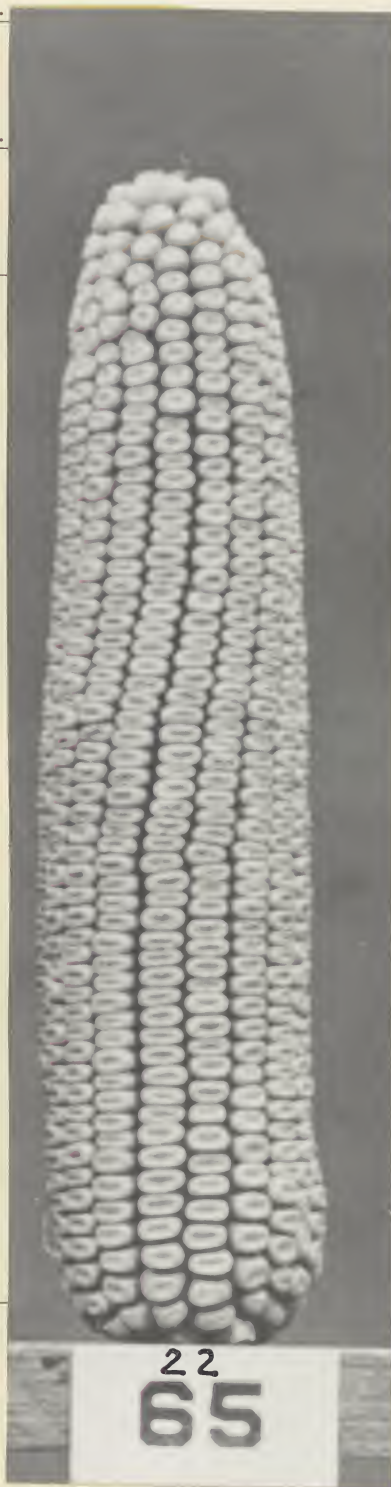
22

DESCRIPTIVE DATA FOR SAMPLE NUMBER 22-65

10 in.

9 in.

8 in.

22
65

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		
Items that required field or laboratory tests														
Bushels per acre	73.5	High				Median					Low	122-		
		78.1	•			71.7				61.0	125			
Percent of good corn	90.9	High									Low	126-		
		92.7	•			89.8				85.8	129			
Percent of moisture	21.3	Low									High	130-		
		17.9				21.4				24.9	133			
Percent of shelled corn	86.4	High									Low	134-		
		87.3	•			85.8				84.5	137			
Density of shelled corn	34.8	Heavy									Light	138-		
		35.6	•			34.2				32.4	141			
Germination index	93.3	High									Low	142-		
		93.8	•			87.1				64.5	145			
Disease index	72.7	Little									Much	146-		
		90.2				75.7	•			58.3	149			
Weight of ears	11.93	Heavy									Light	150-		
		15.07				12.75			•	10.35	153			
Yield Test Score Items observed by oldtime corn judges														
Density of ears +3	40.45	Heavy				Median					Light	154-		
		42.03	•			39.54				37.58	157			
Kernel development +1	58.6	Good									Poor	158-		
		78.6				56.4				38.3	161			
Indentation index +1	39.7	Smooth									Rough	162-		
		16.5				44.7				87.3	165			
Length of kernels +1	13.30	Long									Short	166-		
		15.72				13.41				12.47	169			
Width of kernels -5	7.54	Wide									Narrow	170-		
		9.01				7.92				7.12	173			
Thickness of kernels -5	3.93	Thick									Thin	174-		
		4.42				4.21				3.89	177			
Length of ears +1	8.83	Long									Short	178-		
		9.67				8.96				8.25	181			
Diameter of ears +1	2.062	Small									Large	182-		
		2.012	•			2.137				2.304	185			
No. of rows of kernels +1	17.4	Small									Large	186-		
		14.9	•			18.3				20.9	189			
Color of shank index -5	60.0	White									Dark	190-		
		86.7				67.7				36.7	193			
Condition of shank index -1	33.9	Smooth									Rough	194-		
		58.3				38.4				18.3	197			
Variation index +1	6.0	Uniform									Uneven	198-		
		3.0	•			7.0				11.0	201			
★ A relationship of each descriptive item to yield and to all other items														
202-205														

Sample No. 22-65, entered by

GAYLE SCHOFIELD

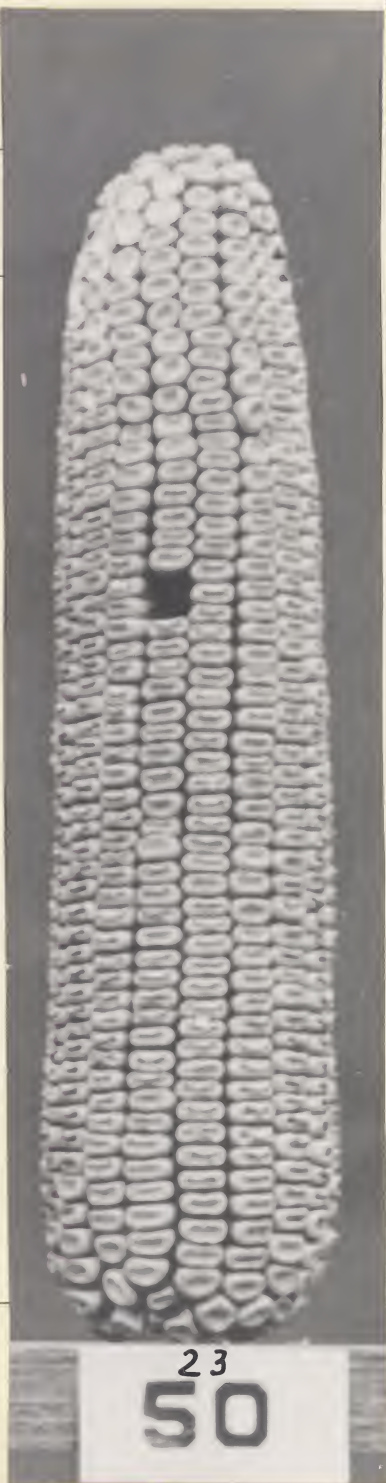
Selected and grown 7 years by Mr. Schofield.
His seed was obtained from several neighbors
living near El Paso.

DESCRIPTIVE DATA FOR SAMPLE NUMBER 23-50

10 in.

9 in.

8 in.



Descriptive items	Value for this sample	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10		
Items that required field or laboratory tests													VOL. 27
Bushels per acre	73.3	High					Median					Low	122-
		78.1	•				71.7					61.0	125
Percent of good corn	91.9	High	•									Low	126-
		92.7					89.8					85.8	129
Percent of moisture	22.5	Low							•			High	130-
		17.9					21.4					24.9	133
Percent of shelled corn	85.6	High							•			Low	134-
		87.3					85.8					84.5	137
Density of shelled corn	35.3	Heavy	•									Light	138-
		35.6					34.2					32.4	141
Germination index	86.4	High						•				Low	142-
		93.8					87.1					64.5	145
Disease index	84.5	Little	•									Much	146-
		90.2					75.7					58.3	149
Weight of ears	12.90	Heavy				•						Light	150-
		15.07					12.75					10.35	153
Yield test score Items observed by oldtime corn judges													
Density of ears +3	40.73	Heavy	•				Median					Light	154-
		42.03					39.54					37.58	157
Kernel development +3	65.0	Good	•									Poor	158-
		78.6					56.4					38.3	161
Indentation index -1	22.7	Smooth	•									Rough	162-
		16.5					44.7					87.3	165
Length of kernels -1	13.12	Long								•		Short	166-
		15.72					13.41					12.47	169
Width of kernels +1	8.07	Wide				•						Narrow	170-
		9.01					7.92					7.12	173
Thickness of kernels +1	4.31	Thick	•									Thin	174-
		4.42					4.21					3.89	177
Length of ears +1	8.83	Long										Short	178-
		9.67					8.96					8.25	181
Diameter of ears +1	2.137	Small						•				Large	182-
		2.012					2.137					2.304	185
No. of rows of kernels +1	17.5	Small			•							Large	186-
		14.9					18.3					20.9	189
Color of shank index +1	66.7	White										Dark	190-
		86.7					67.7					36.7	193
Condition of shank index +1	43.3	Smooth				•						Rough	194-
		58.3					38.4					18.3	197
Variation index +1	7.0	Uniform				•						Uneven	198-
		3.0					7.0					11.0	201
Total +12													202-205
★ A relationship of each descriptive item to yield and to all other items													

★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.

Sample No. 23-50, entered by

EMIL MARTIN

No record was made of the years that Mr. Martin had selected and grown his sample. He reported that seed that he had grown for several years was mixed with seed obtained from John Martin.

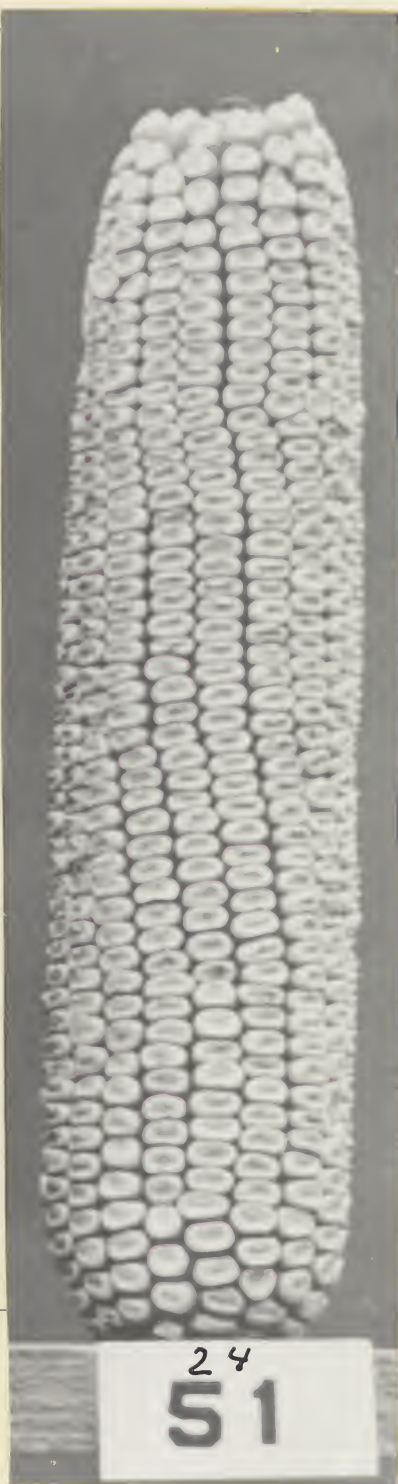
24

DESCRIPTIVE DATA FOR SAMPLE NUMBER 24-51

10 i

9 i

8 i



Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		

Items that required field or laboratory tests

VOL. II

Bushels per acre	73.2	High 78.1	•					Median 71.7					Low 61.0	122-125
Percent of good corn	89.5	High 92.7						89.8	•				Low 85.8	126-129
Percent of moisture	21.5	Low 17.9						21.4	•				High 24.9	130-133
Percent of shelled corn	85.8	High 87.3						85.8	•				Low 84.5	134-137
Density of shelled corn	34.4	Heavy 35.6				•		34.2					Light 32.4	138-141
Germination index	79.8	High 93.8						87.1					Low 64.5	142-145
Disease index	82.6	Little 90.2	•					75.7					Much 58.3	146-149
Weight of ears	13.32	Heavy 15.07		•				12.75					Light 10.35	150-153

Yield
Ear
per

Items observed by oldtime corn judges

Density of ears	+3 40.73	Heavy 42.03	•					Median 39.54					Light 37.58	154-157
Kernel development	+1 63.3	Good 78.6		•				56.4					Poor 38.3	158-161
Indentation index	-1 49.0	Smooth 16.5						44.7		•			Rough 87.3	162-165
Length of kernels	+1 13.41	Long 15.72						13.41	•				Short 12.47	166-169
Width of kernels	+1 8.05	Wide 9.01				•		7.92					Narrow 7.12	170-173
Thickness of kernels	+1 4.31	Thick 4.42	•					4.21					Thin 3.89	174-177
Length of ears	-1 9.29	Long 9.67	•					8.96					Short 8.25	178-181
Diameter of ears	+1 2.117	Small 2.012				•		2.137					Large 2.304	182-185
No. of rows of kernels	+1 18.2	Small 14.9						18.3	•				Large 20.9	186-189
Color of shank index	-1 51.7	White 86.7						67.7					Dark 36.7	190-193
Condition of shank index	-1 38.3	Smooth 58.3						38.4	•				Rough 18.3	194-197
Variation index	-1 8.0	Uniform 3.0						7.0		•			Uneven 11.0	198-201

Total +4

★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.

Sample No. 24-51, entered by

W.E. DYAR

Selected and grown 7 years by Mr. Dyar.
His seed was obtained from Wm. B. Otwell, a neighbor.
Mr. Otwell's seed was the source, also, of samples
85-11, 44-12, 68-98.

24
51

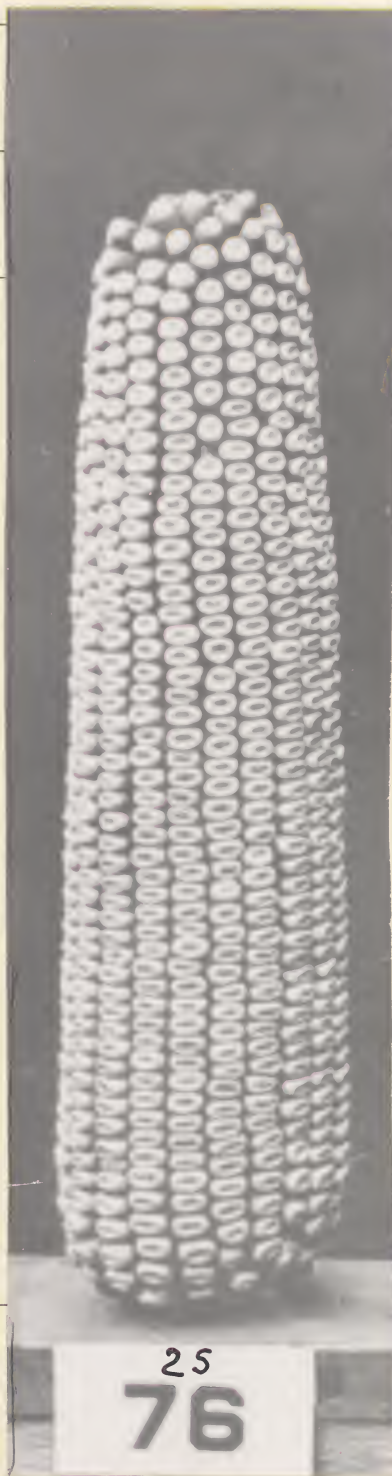
25

DESCRIPTIVE DATA FOR SAMPLE NUMBER 25-76

10 in.

9 in.

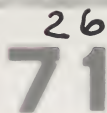
8 in.

25
76

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														
Bushels per acre	73.1	High 78.1		•		Median 71.7						Low 61.0	122-125	
Percent of good corn	88.3	High 92.7				89.8						Low 85.8	126-129	
Percent of moisture	19.8	Low 17.9				21.4						High 24.9	130-133	
Percent of shelled corn	86.0	High 87.3		•		85.8						Low 84.5	134-137	
Density of shelled corn	35.6	Heavy 35.6				34.2						Light 32.4	138-141	
Germination index	89.3	High 93.8			•	87.1						Low 64.5	142-145	
Disease index	89.2	Little 90.2		•		75.7						Much 58.3	146-149	
Weight of ears	11.30	Heavy 15.07				12.75						Light 10.35	150-153	
yield test ears Items observed by oldtime corn judges														
Density of ears	+5 39.80	Heavy 42.03			•	Median 39.54						Light 37.58	154-157	
Kernel development	+1 60.0	Good 78.6			•	56.4						Poor 38.3	158-161	
Indentation index	-1 26.5	Smooth 16.5				44.7						Rough 87.3	162-165	
Length of kernels	+1 13.19	Long 15.72				13.41			•			Short 12.47	166-169	
Width of kernels	-5 7.12	Wide 9.01				7.92						Narrow 7.12	170-173	
Thickness of kernels	-5 3.93	Thick 4.42				4.21						Thin 3.89	174-177	
Length of ears	-3 8.46	Long 9.67				8.96						Short 8.25	178-181	
Diameter of ears	+1 2.067	Small 2.012				2.137						Large 2.304	182-185	
No. of rows of kernels	-3 19.1	Small 14.9				18.3				•		Large 20.9	186-189	
Color of shank index	+1 70.0	White 86.7				67.7						Dark 36.7	190-193	
Condition of shank index	-1 36.7	Smooth 58.3				38.4			•			Rough 18.3	194-197	
Variation index	-1 8.0	Uniform 3.0				7.0			•			Uneven 11.0	198-201	
Total -10														
★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated														
202-205														

Vol. II

8 in.



Descriptive items	Value for this sample	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10		
Items that required field or laboratory tests													VOL. II
Bushels per acre	73.1	High 78.1				Median 71.7						Low 61.0	122- 125
Percent of good corn	90.9	High 92.7				89.8						Low 85.8	126- 129
Percent of moisture	20.1	Low 17.9				21.4						High 24.9	130- 133
Percent of shelled corn	85.7	High 87.3				85.8						Low 84.5	134- 137
Density of shelled corn	34.4	Heavy 35.6				34.2						Light 32.4	138- 141
Germination index	86.2	High 93.8				87.1						Low 64.5	142- 145
Disease index	74.5	Little 90.2				75.7						Much 58.3	146- 149
Weight of ears	10.82	Heavy 15.07				12.75						Light 10.35	150- 153
Yield Test score Items observed by oldtime corn judges													
Density of ears +3	41.05	Heavy 42.03				Median 39.54						Light 37.58	154- 158
Kernel development +1	52.0	Good 78.6				56.4						Poor 38.3	158- 161
Indentation index +1	44.2	Smooth 16.5				44.7						Rough 87.3	162- 165
Length of kernels -5	12.81	Long 15.72				13.41						Short 12.47	166- 169
Width of kernels -1	7.77	Wide 9.01				7.92						Narrow 7.12	170- 173
Thickness of kernels +1	4.06	Thick 4.42				4.21						Thin 3.89	174- 177
Length of ears -3	8.25	Long 9.67				8.96						Short 8.25	178- 181
Diameter of ears +1	2.017	Small 2.012				2.137						Large 2.304	182- 185
No. of rows of kernels +1	17.7	Small 14.9				18.3						Large 20.9	186- 189
Color of shank index -1	40.0	White 86.7				67.7						Dark 36.7	190- 193
Condition of shank index +1	41.7	Smooth 58.3				38.4						Rough 18.3	194- 197
Variation index -1	9.0	Uniform 3.0				7.0						Uneven 11.0	198- 201
Total -2 ★ A relationship of each descriptive item to yield and to all other items													202- 205

Sample No. 26-71, entered by

JUDSON EIGGER

Selected and grown two years by Mr. Bigger.
His seed was obtained from a neighbor, T.B. Berger.

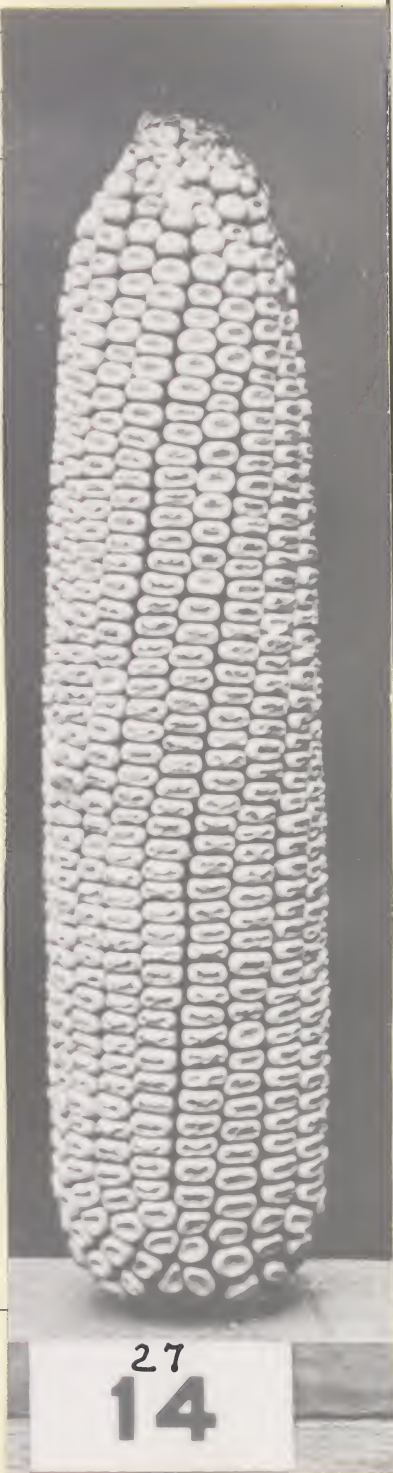
27

DESCRIPTIVE DATA FOR SAMPLE NUMBER 27-14

10 in.

9 in.

8 in.



Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		
Items that required field or laboratory tests														
Bushels per acre	73.1	High 78.1					Median 71.7						Low 61.0	122-125
Percent of good corn	89.0	High 92.7					89.8						Low 85.8	126-129
Percent of moisture	22.6	Low 17.9					21.4						High 24.9	130-133
Percent of shelled corn	85.9	High 87.3					85.8						Low 84.5	134-137
Density of shelled corn	34.0	Heavy 35.6					34.2						Light 32.4	138-141
Germination index	85.2	High 93.8					87.1						Low 64.5	142-145
Disease index	77.6	Little 90.2					75.7						Much 58.3	146-149
Weight of ears	12.98	Heavy 15.07					12.75						Light 10.35	150-153
Yield test score Items observed by oldtime corn judges														
Density of ears	-1 39.26	Heavy 42.03					Median 39.54						Light 37.58	154-157
Kernel development	+1 55.0	Good 78.6					56.4						Poor 38.3	158-161
Indentation index	+3 39.0	Smooth 16.5					44.7						Rough 87.3	162-165
Length of kernels	-1 13.39	Long 15.72					13.41						Short 12.47	166-169
Width of kernels	+1 8.27	Wide 9.01					7.92						Narrow 7.12	170-173
Thickness of kernels	+1 4.31	Thick 4.42					4.21						Thin 3.89	174-177
Length of ears	+1 9.04	Long 9.67					8.96						Short 8.25	178-181
Diameter of ears	+1 2.158	Small 2.012					2.137						Large 2.304	182-185
No. of rows of kernels	+1 17.6	Small 14.9					18.3						Large 20.9	186-189
Color of shank index	+1 65.0	White 86.7					67.7						Dark 36.7	190-193
Condition of shank index	+1 40.0	Smooth 58.3					38.4						Rough 18.3	194-197
Variation index	-1 8.0	Uniform 3.0					7.0						Uneven 11.0	198-201
Total +8 ★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														
202-205														

Vol. II

27
14

Sample No. 27-14, entered by

Jo LEMAN

Selected and grown 10 years by Mr. Leman.
The source of his seed was not reported.

DESCRIPTIVE DATA FOR SAMPLE NUMBER 28-58

8 in.



58

Descriptive items	Value for this sample	Decil group									Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9		

Items that required field or laboratory tests													VOL II
Bushels per acre	73.0	High 78.1				Median 71.7						Low 61.0	122-125
Percent of good corn	90.5	High 92.7				89.8						Low 85.8	126-129
Percent of moisture	20.4	Low 17.9				21.4						High 24.9	130-133
Percent of shelled corn	86.4	High 87.3				85.8						Low 84.5	134-137
Density of shelled corn	34.9	Heavy 35.6				34.2						Light 32.4	138-141
Germination index	87.8	High 93.8				87.1						Low 64.5	142-145
Disease index	81.4	Little 90.2				75.7						Much 58.3	146-149
Weight of ears	12.50	Heavy 15.07				12.75						Light 10.35	150-153

Yield test score

Items observed by oldtime corn judges

Density of ears	+3	40.66	Heavy 42.03				Median 39.54					Light 37.58	154-157
Kernel development	+1	62.1	Good 78.6				56.4					Poor 38.3	158-161
Indentation index	-1	30.2	Smooth 16.5				44.7					Rough 87.3	162-165
Length of kernels	-5	12.93	Long 15.72				13.41					Short 12.47	166-169
Width of kernels	+1	7.93	Wide 9.01				7.92					Narrow 7.12	170-173
Thickness of kernels	+1	4.28	Thick 4.42				4.21					Thin 3.89	174-177
Length of ears	-1	9.16	Long 9.67				8.96					Short 8.25	178-181
Diameter of ears	+1	2.067	Small 2.012				2.137					Large 2.304	182-185
No. of rows of kernels	+1	17.5	Small 14.9				18.3					Large 20.9	186-189
Color of shank index	+1	70.0	White 86.7				67.7					Dark 36.7	190-193
Condition of shank index	+1	43.3	Smooth 58.3				38.4					Rough 18.3	194-197
Variation index	+1	6.0	Uniform 3.0				7.0					Uneven 11.0	198-201

Total +4

A relationship of each descriptive item to yield and to all other items is shown on the pages indicated

202-	205
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Sample No. 28-58, entered by

E. G. MORRIS.

The record is indefinite but probably Mr. Morris had grown his sample several years from seed obtained from a neighbor.

29

DESCRIPTIVE DATA FOR SAMPLE NUMBER 29-52

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		
Items that required field or laboratory tests														
Bushels per acre	73.0	High				Median						Low	122-125	
		78.1				71.7						61.0		
Percent of good corn	90.5	High										Low	126-129	
		92.7				89.8						85.8		
Percent of moisture	20.8	Low										High	130-133	
		17.9				21.4						24.9		
Percent of shelled corn	85.5	High										Low	134-137	
		87.3				85.8						84.5		
Density of shelled corn	34.3	Heavy										Light	138-141	
		35.6				34.2						32.4		
Germination index	86.2	High										Low	142-145	
		93.8				87.1						64.5		
Disease index	82.6	Little										Much	146-149	
		90.2				75.7						58.3		
Weight of ears	13.15	Heavy										Light	150-153	
		15.07				12.75						10.35		
Yield trial Items observed by oldtime corn judges score														
Density of ears	+5 39.97	Heavy				Median						Light	154-157	
		42.03				39.54						37.58		
Kernel development	+1 57.1	Good										Poor	158-161	
		78.6				56.4						38.3		
Indentation index	+1 41.7	Smooth										Rough	162-165	
		16.5				44.7						87.3		
Length of kernels	+1 13.27	Long										Short	166-169	
		15.72				13.41						12.47		
Width of kernels	-1 78.2	Wide										Narrow	170-173	
		9.01				7.92						7.12		
Thickness of kernels	+1 42.3	Thick										Thin	174-177	
		4.42				4.21						3.89		
Length of ears	+1 8.92	Long										Short	178-181	
		9.67				8.96						8.25		
Diameter of ears	+1 2.107	Small										Large	182-185	
		2.012				2.137						2.304		
No. of rows of kernels	-3 19.3	Small										Large	186-189	
		14.9				18.3						20.9		
Color of shank index	-1 56.7	White										Dark	190-193	
		86.7				67.7						36.7		
Condition of shank index	-1 23.3	Smooth										Rough	194-197	
		58.3				38.4						18.3		
Variation index	+1 7.0	Uniform										Uneven	198-201	
		3.0				7.0						11.0		
Total +6														
★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														
202-205														

VOL. II

122-125

126-129

130-133

134-137

138-141

142-145

146-149

150-153

154-157

158-161

162-165

166-169

170-173

174-177

178-181

182-185

186-189

190-193

194-197

198-201

202-205

29
52

Sample No. 29-52, entered by

R.C. SCHERTZ

Selected and grown five years by Mr. Schertz.
The source of his seed was not recorded.
See pages 10 and 11.

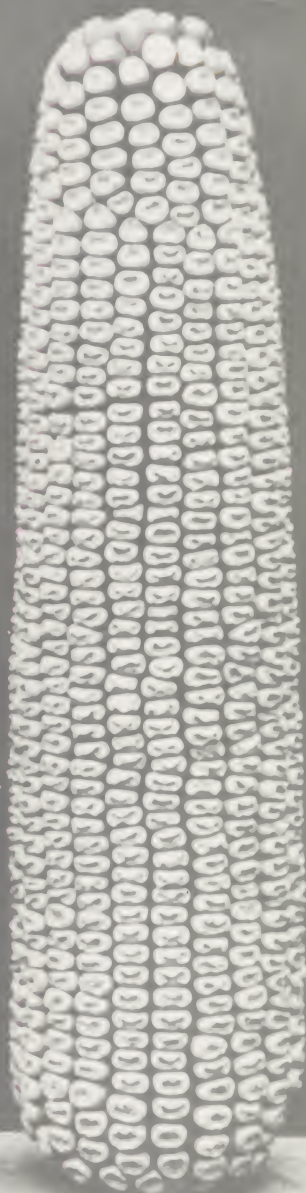
30

DESCRIPTIVE DATA FOR SAMPLE NUMBER 30-59

10 in.

9 in.

8 in.



30
59

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														
Bushels per acre	73.0	High 78.1					Median 71.7						Low 61.0	122- 125
Percent of good corn	91.3	High 92.7					89.8						Low 85.8	126- 129
Percent of moisture	19.7	Low 17.9					21.4						High 24.9	130- 133
Percent of shelled corn	85.3	High 87.3					85.8						Low 84.5	134- 137
Density of shelled corn	34.4	Heavy 35.6					34.2						Light 32.4	138- 141
Germination index	—	High 93.8					87.1						Low 64.5	142- 145
Disease index	—	Little 90.2					75.7						Much 58.3	146- 149
Weight of ears	13.00	Heavy 15.07					12.75						Light 10.35	150- 153
Yield Test score Items observed by oldtime corn judges														
Density of ears	+5 40.05	Heavy 42.03					Median 39.54						Light 37.58	154- 157
Kernel development	+1 52.2	Good 78.6					56.4						Poor 38.3	158- 161
Indentation index	+1 41.4	Smooth 16.5					44.7						Rough 87.3	162- 165
Length of kernels	+1 13.38	Long 15.72					13.41						Short 12.47	166- 169
Width of kernels	+1 7.92	Wide 9.01					7.92						Narrow 7.12	170- 173
Thickness of kernels	+1 4.21	Thick 4.42					4.21						Thin 3.89	174- 177
Length of ears	+1 9.00	Long 9.67					8.96						Short 8.25	178- 181
Diameter of ears	+1 2.143	Small 2.012					2.137						Large 2.304	182- 185
No. of rows of kernels	+1 18.7	Small 14.9					18.3						Large 20.9	186- 189
Color of shank index	-1 57.5	White 86.7					67.7						Dark 36.7	190- 193
Condition of shank index	+7 52.5	Smooth 58.3					38.4						Rough 18.3	194- 197
Variation index	+1 6.0	Uniform 3.0					7.0						Uneven 11.0	198- 201
Total +20														
A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														
202- 205														

Sample No. 30-59, entered by

C.E. GREENE

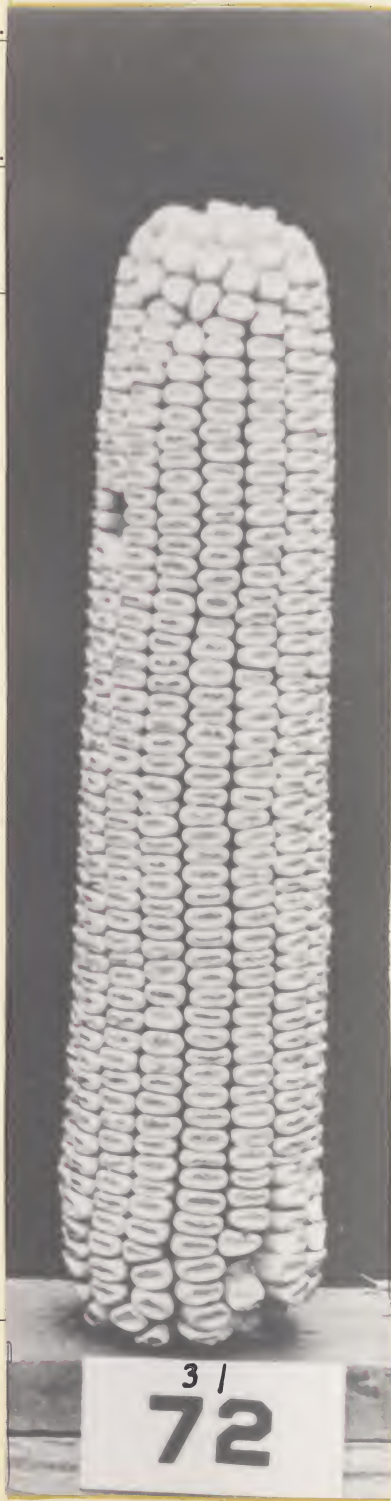
Selected and grown 10 years by Mr. Greene.
His seed was obtained from A.L. Underwood of
Minonk, Illinois. This was one of the ten "high
yield-test-score" samples. Page 202.

DESCRIPTIVE DATA FOR SAMPLE NUMBER 31-72

0 in.

9 in.

8 in.



Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		
Items that required field or laboratory tests														Vol. 77
Bushels per acre	72.9	High					Median						Low	122-125
		78.1		•			71.7						61.0	
Percent of good corn	89.6	High						•					Low	126-129
		92.7					89.8						85.8	
Percent of moisture	21.0	Low				•							High	130-133
		17.9					21.4						24.9	
Percent of shelled corn	84.7	High											Low	134-137
		87.3					85.8						84.5	
Density of shelled corn	34.2	Heavy											Light	138-141
		35.6					34.2						32.4	
Germination index	83.8	High											Low	142-145
		93.8					87.1				•		64.5	
Disease index	74.5	Little											Much	146-149
		90.2					75.7		•				58.3	
Weight of ears	12.78	Heavy											Light	150-153
		15.07					12.75		•				10.35	
Yield test score Items observed by oldtime corn judges														
Density of ears	+5 40.16	Heavy					Median						Light	154-157
		42.03		•			39.54						37.58	
Kernel development	+3 64.6	Good		•									Poor	158-161
		78.6					56.4						38.3	
Indentation index	-1 51.0	Smooth											Rough	162-165
		16.5					44.7				•		87.3	
Length of kernels	+3 13.75	Long				•							Short	166-169
		15.72					13.41						12.47	
Width of kernels	+1 9.01	Wide											Narrow	170-173
		9.01		•			7.92						7.12	
Thickness of kernels	+1 4.18	Thick											Thin	174-177
		4.42					4.21				•		3.89	
Length of ears	+1 8.83	Long											Short	178-181
		9.67					8.96				•		8.25	
Diameter of ears	+1 2.142	Small											Large	182-185
		2.012					2.137						2.304	
No. of rows of kernels	+1 16.1	Small											Large	186-189
		14.9		•			18.3						20.9	
Color of shank index	-1 80.0	White											Dark	190-193
		86.7		•			67.7						36.7	
Condition of shank index	+3 48.3	Smooth											Rough	194-197
		58.3		•			38.4						18.3	
Variation index	+1 6.0	Uniform											Uneven	198-201
		3.0		•			7.0						11.0	
Totals +18														202-205
A relationship of each descriptive item to yield and to all other items														

* A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.

Sample No. 31-72, entered by

RALPH HAAS

Selected and grown 11 years by Mr. Haas.
His seed was obtained from his father.
This was one of only six white samples in the test.
This seed was one of the ten high "yield-test-score" samples. Page 203.

32

DESCRIPTIVE DATA FOR SAMPLE NUMBER 32-89

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		

Items that required field or laboratory tests

102. II

Bushels per acre	72.9	High 78.1		•			Median 71.7						Low 61.0	122-125
Percent of good corn	90.6	High 92.7		•			89.8						Low 85.8	126-129
Percent of moisture	22.4	Low 17.9					21.4			•			High 24.9	130-133
Percent of shelled corn	86.2	High 87.3	•				85.8						Low 84.5	134-137
Density of shelled corn	33.6	Heavy 35.6					34.2				•		Light 32.4	138-141
Germination index	79.5	High 93.8					87.1						Low 64.5	142-145
Disease index	75.5	Little 90.2					75.7	•					Much 58.3	146-149
Weight of ears	12.75	Heavy 15.07					12.75	•					Light 10.35	150-153

Yield test score

Items observed by oldtime corn judges

Density of ears	-1 39.27	Heavy 42.03					Median 39.54	•					Light 37.58	154-158
Kernel development	+1 52.4	Good 78.6					56.4			•			Poor 38.3	158-161
Indentation index	-1 54.5	Smooth 16.5					44.7				•		Rough 87.3	162-165
Length of kernels	+3 13.73	Long 15.72		•			13.41						Short 12.47	166-169
Width of kernels	+1 8.25	Wide 9.01	•				7.92						Narrow 7.12	170-173
Thickness of kernels	+1 4.28	Thick 4.42		•			4.21						Thin 3.89	174-177
Length of ears	-1 9.12	Long 9.67		•			8.96						Short 8.25	178-181
Diameter of ears	+1 2.129	Small 2.012					2.137	•					Large 2.304	182-185
No. of rows of kernels	+1 17.6	Small 14.9		•			18.3						Large 20.9	186-189
Color of shank index	+1 70.0	White 86.7				•	67.7						Dark 36.7	190-193
Condition of shank index	-1 25.0	Smooth 58.3					38.4						Rough 18.3	194-197
Variation index	+1 7.0	Uniform 3.0				•	7.0						Uneven 11.0	198-201

★ Total + 6
A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.

Sample No. 32-89, entered by

OSCAR UNZICKER

Selected and grown only two years by Mr. Unzicker. His seed was a mixture of some obtained from Gommers Brothers of Pekin, Illinois, and some "local Reids". Mr. Unzicker's sample was selected in 1923 as one of ten most typical of the Old Show Type of corn. Page 177.

207.

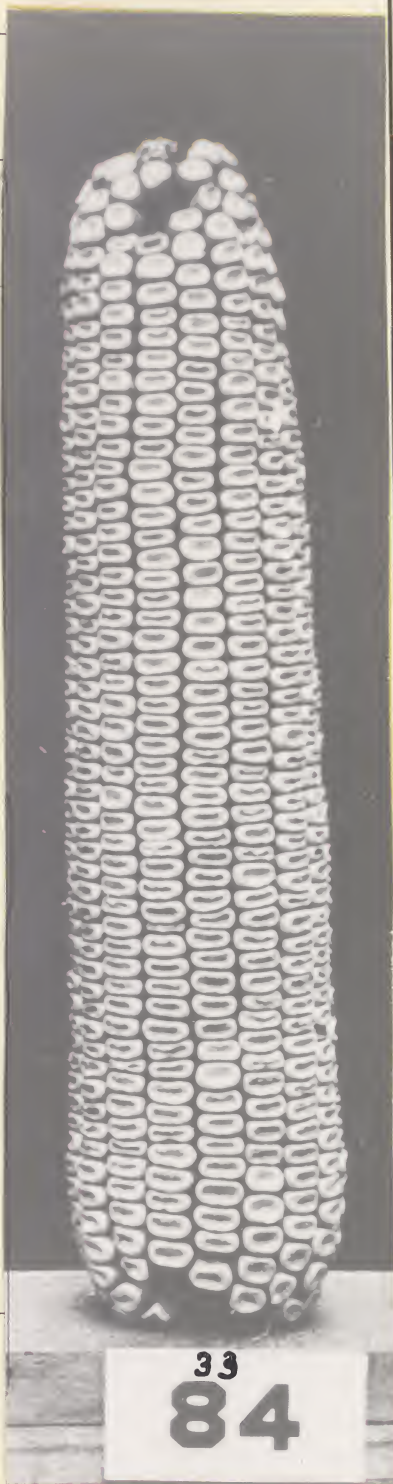
32
89

DESCRIPTIVE DATA FOR SAMPLE NUMBER 33-84

10 in.

9 in.

8 in.



Descriptive items	Value for this sample	Best or most favored										Decil group	Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														Vol. II
Bushels per acre	72.8	High 78.1				Median 71.7						Low 61.0	122-125	
Percent of good corn	91.6	High 92.7				89.8						Low 85.8	126-129	
Percent of moisture	23.7	Low 17.9				21.4						High 24.9	130-133	
Percent of shelled corn	85.3	High 87.3				85.8						Low 84.5	134-137	
Density of shelled corn	34.7	Heavy 35.6				34.2						Light 32.4	138-141	
Germination index	81.6	High 93.8				87.1						Low 64.5	142-145	
Disease index	67.4	Little 90.2				75.7						Much 58.3	146-149	
Weight of ears	12.27	Heavy 15.07				12.75						Light 10.35	150-153	
Yield test score Items observed by oldtime corn judges														
Density of ears	-1 39.50	Heavy 42.03				Median 39.54						Light 37.58	154-157	
Kernel development	+1 61.7	Good 78.6				56.4						Poor 38.3	158-161	
Indentation index	-1 28.2	Smooth 16.5				44.7						Rough 87.3	162-165	
Length of kernels	-1 13.01	Long 15.72				13.41						Short 12.47	166-169	
Width of kernels	+1 8.81	Wide 9.01				7.92						Narrow 7.12	170-173	
Thickness of kernels	+1 4.23	Thick 4.42				4.21						Thin 3.89	174-177	
Length of ears	+1 9.08	Long 9.67				8.96						Short 8.25	178-181	
Diameter of ears	+1 2.078	Small 2.012				2.137						Large 2.304	182-185	
No. of rows of kernels	+1 15.8	Small 14.9				18.3						Large 20.9	186-189	
Color of shank index	+1 67.3	White 86.7				67.7						Dark 36.7	190-193	
Condition of shank index	-1 35.0	Smooth 58.3				38.4						Rough 18.3	194-197	
Variation index	+1 7.0	Uniform 3.0				7.0						Uneven 11.0	198-201	
Total +4 ★ A relationship of each descriptive item to yield and to all other items														202-205

Sample No. 33-84, entered by

H.R. NIXON

Selected and grown only two years by Mr. Nixon.
His corn came from a mixture of "several local corns".

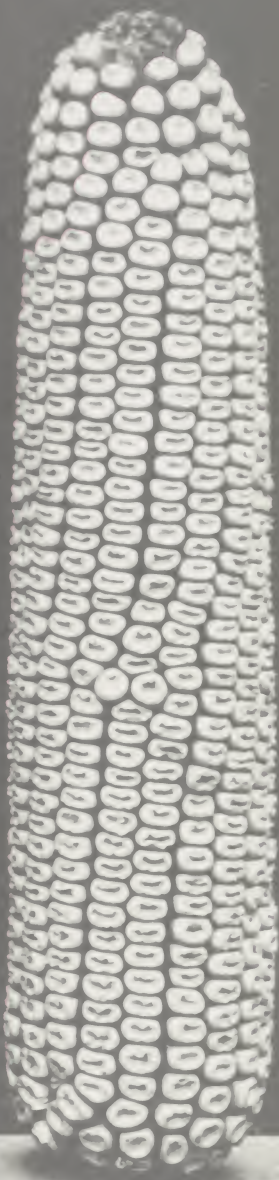
34

DESCRIPTIVE DATA FOR SAMPLE NUMBER 34-42

10 in.

9 in.

8 in.



34
42

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														VOL. II
Bushels per acre	72.7	High 78.1		•			Median 71.7						Low 61.0	122-125
Percent of good corn	91.3	High 92.7	•				89.8						Low 85.8	126-129
Percent of moisture	19.9	Low 17.9	•				21.4						High 24.9	130-133
Percent of shelled corn	85.4	High 87.3					85.8		•				Low 84.5	134-137
Density of shelled corn	34.6	Heavy 35.6		•			34.2						Light 32.4	138-141
Germination index	80.3	High 93.8					87.1						Low 64.5	142-145
Disease index	71.7	Little 90.2					75.7		•				Much 58.3	146-149
Weight of ears	12.57	Heavy 15.07					12.75	•					Light 10.35	150-153
Yield Test Score Items observed by oldtime corn judges														
Density of ears	+5 39.82	Heavy 42.03			•		Median 39.54						Light 37.58	154-157
Kernel development	+3 66.9	Good 78.6	•				56.4						Poor 38.3	158-161
Indentation index	+1 39.0	Smooth 16.5			•		44.7						Rough 87.3	162-165
Length of kernels	-1 13.01	Long 15.72					13.41				•		Short 12.47	166-169
Width of kernels	-1 7.72	Wide 9.01					7.92			•			Narrow 7.12	170-173
Thickness of kernels	+1 4.19	Thick 4.42					4.21	•					Thin 3.89	174-177
Length of ears	-1 9.08	Long 9.67		•			8.96						Short 8.25	178-181
Diameter of ears	+1 2.104	Small 2.012		•			2.137						Large 2.304	182-185
No. of rows of kernels	+1 18.3	Small 14.9				•	18.3						Large 20.9	186-189
Color of shank index	+1 66.7	White 86.7					67.7	•					Dark 36.7	190-193
Condition of shank index	+1 43.3	Smooth 58.3			•		38.4						Rough 18.3	194-197
Variation index	+1 6.0	Uniform 3.0	•				7.0						Uneven 11.0	198-201
Total +123														202-205
★ A relationship of each descriptive item to yield and to all other items														

Sample No. 34-42, entered by

DAVISON BROTHERS

The Davison Brothers, Victor and Lester, reported that they had only just begun to use this seed which they obtained from a neighbor, John Duden.

DESCRIPTIVE DATA FOR SAMPLE NUMBER 35-16

10 in.

9 in.

8 in.



35

16

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		
Items that required field or laboratory tests														Vol. II
Bushels per acre	72.7	High 78.1		•		Median 71.7							Low 61.0	122- 125
Percent of good corn	91.3	High 92.7	•			89.8							Low 85.8	126- 129
Percent of moisture	22.1	Low 17.9				21.4		•					High 24.9	130- 133
Percent of shelled corn	85.8	High 87.3				85.8							Low 84.5	134- 137
Density of shelled corn	34.3	Heavy 35.6			•	34.2							Light 32.4	138- 144
Germination index	90.7	High 93.8		•		87.1							Low 64.5	142- 145
Disease index	83.8	Little 90.2	•			75.7							Much 58.3	146- 149
Weight of ears	13.00	Heavy 15.07			•	12.75							Light 10.35	150- 153
Yield test score Items observed by oldtime corn judges														
Density of ears	+5 39.89	Heavy 42.03			•	Median 39.54							Light 37.58	154- 157
Kernel development	+3 64.0	Good 78.6	•			56.4							Poor 38.3	158- 161
Indentation index	+3 34.5	Smooth 16.5	•			44.7							Rough 87.3	162- 165
Length of kernels	-1 13.15	Long 15.72				13.41				•			Short 12.47	166- 169
Width of kernels	+1 7.88	Wide 9.01				7.92		•					Narrow 7.12	170- 173
Thickness of kernels	+1 4.33	Thick 4.42	•			4.21							Thin 3.89	174- 177
Length of ears	-1 9.12	Long 9.67		•		8.96							Short 8.25	178- 181
Diameter of ears	+1 2.133	Small 2.012				2.137		•					Large 2.304	182- 185
No. of rows of kernels	+1 18.3	Small 14.9				18.3		•					Large 20.9	186- 189
Color of shank index	-1 75.0	White 86.7		•		67.7							Dark 36.7	190- 193
Condition of shank index	+7 51.7	Smooth 58.3	•			38.4							Rough 18.3	194- 197
Variation index	+1 7.0	Uniform 3.0			•	7.0							Uneven 11.0	198- 201
Total +20														202- 205
★ A relationship of each descriptive item to yield and to all other items														

Sample No. 35-16, entered by

Jo MAJOR

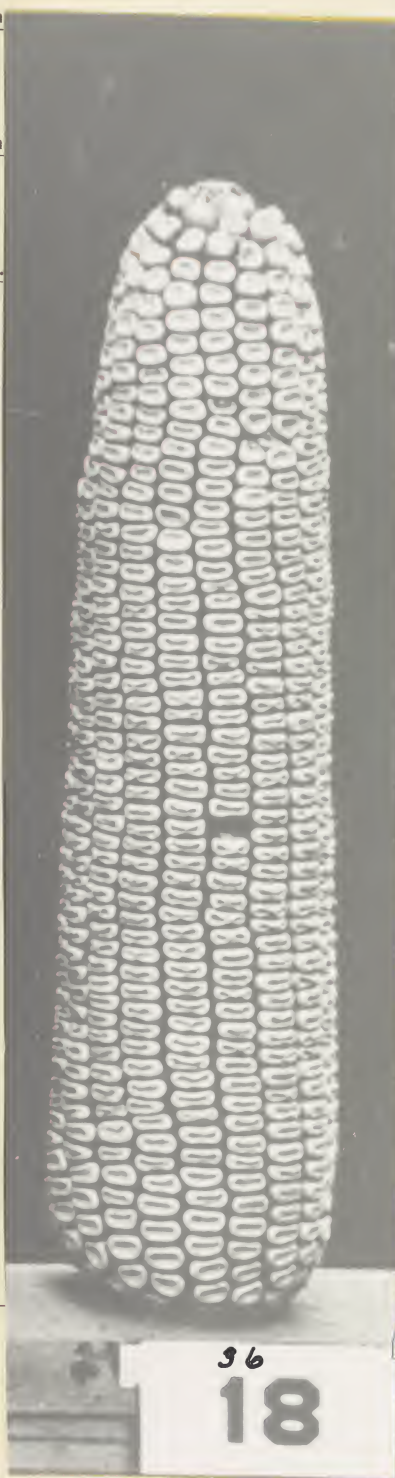
There was no record of the years selected and grown and the source of this seed.
Mr. Major's samples was one of the ten high yield-test-score samples. Page 174-202.

DESCRIPTIVE DATA FOR SAMPLE NUMBER 36-18

10 in

9 in

8 in



Descriptive items	Value for this sample	Best or most favored										Decil group	Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														
Bushels per acre	72.7	High 78.1		•		Median 71.7							Low 61.0	122-125
Percent of good corn	90.5	High 92.7		•		89.8							Low 85.8	126-129
Percent of moisture	22.9	Low 17.9				21.4				•			High 24.9	130-133
Percent of shelled corn	86.7	High 87.3		•		85.8							Low 84.5	134-137
Density of shelled corn	34.1	Heavy 35.6				34.2	•						Light 32.4	138-141
Germination index	84.1	High 93.8				87.1				•			Low 64.5	142-145
Disease index	81.7	Little 90.2	•			75.7							Much 58.3	146-149
Weight of ears	11.77	Heavy 15.07				12.75					•		Light 10.35	150-153
Yield Test same Items observed by oldtime corn judges														
Density of ears	+5 39.91	Heavy 42.03		•		Median 39.54							Light 37.58	154-157
Kernel development	+1 55.7	Good 78.6				56.4	•						Poor 38.3	158-161
Indentation index	+1 42.2	Smooth 16.5				44.7	•						Rough 87.3	162-165
Length of kernels	+1 13.41	Long 15.72				13.41	•						Short 12.47	166-169
Width of kernels	-1 7.70	Wide 9.01				7.92				•			Narrow 7.12	170-173
Thickness of kernels	+1 4.14	Thick 4.42				4.21				•			Thin 3.89	174-177
Length of ears	+1 8.58	Long 9.67				8.96					•		Short 8.25	178-181
Diameter of ears	+1 2.092	Small 2.012	•			2.137							Large 2.304	182-185
No. of rows of kernels	+1 18.5	Small 14.9				18.3	•						Large 20.9	186-189
Color of shank index	+1 65.0	White 86.7				67.7				•			Dark 36.7	190-193
Condition of shank index	+1 46.7	Smooth 58.3		•		38.4							Rough 18.3	194-197
Variation index	-1 8.0	Uniform 3.0				7.0				•			Uneven 11.0	198-201
Total +12														
★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														
202-205														

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36

18

Sample No. 36-18, entered by

E. H. NEUHAUSER

Selected and grown 4 years by Mr. Neuhauser.
His seed came from a mixture of seed from the Funk Brothers Seed Company and the Sutton Seed Company of Bloomington and Mason City respectively.

DESCRIPTIVE DATA FOR SAMPLE NUMBER 37-47

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		

Items that required field or laboratory tests

VOL. II

Bushels per acre	72.6	High				•	Median						Low	122-125
		78.1					71.7						61.0	
Percent of good corn	90.1	High					•	89.8					Low	126-129
		92.7											85.8	
Percent of moisture	19.3	Low						21.4					High	130-133
		17.9											24.9	
Percent of shelled corn	86.2	High			•								Low	134-137
		87.3						85.8					84.5	
Density of shelled corn	34.1	Heavy					•						Light	138-141
		35.6						34.2					32.4	
Germination index	89.5	High				•							Low	142-145
		93.8						87.1					64.5	
Disease index	80.0	Little			•								Much	146-149
		90.2						75.7					58.3	
Weight of ears	11.35	Heavy											Light	150-153
		15.07						12.75					10.35	

Yield
Test
Score

Items observed by oldtime corn judges

Density of ears	+3 40.39	Heavy				•	Median						Light	154-157
		42.03					39.54						37.58	
Kernel development	+1 54.8	Good						•					Poor	158-161
		78.6						56.4					38.3	
Indentation index	-1 49.7	Smooth							•				Rough	162-165
		16.5						44.7					87.3	
Length of kernels	+1 13.23	Long							•				Short	166-169
		15.72						13.41					12.47	
Width of kernels	+1 8.35	Wide				•							Narrow	170-173
		9.01						7.92					7.12	
Thickness of kernels	+1 4.20	Thick						•					Thin	174-177
		4.42						4.21					3.89	
Length of ears	+1 8.58	Long										•	Short	178-181
		9.67						8.96					8.25	
Diameter of ears	+1 2.042	Small				•							Large	182-185
		2.012						2.137					2.304	
No. of rows of kernels	+1 16.6	Small				•							Large	186-189
		14.9						18.3					20.9	
Color of shank index	-1 81.7	White				•							Dark	190-193
		86.7						67.7					36.7	
Condition of shank index	+3 46.7	Smooth				•							Rough	194-197
		58.3						38.4					18.3	
Variation index	+1 6.0	Uniform				•							Uneven	198-201
		3.0						7.0					11.0	

Total +12

★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.

202-205

Sample No. 37-47, entered by

DeWITT TALLIN

Selected and grown 10 years by Mr. Tallin.
The source of this seed was not recorded.37
47

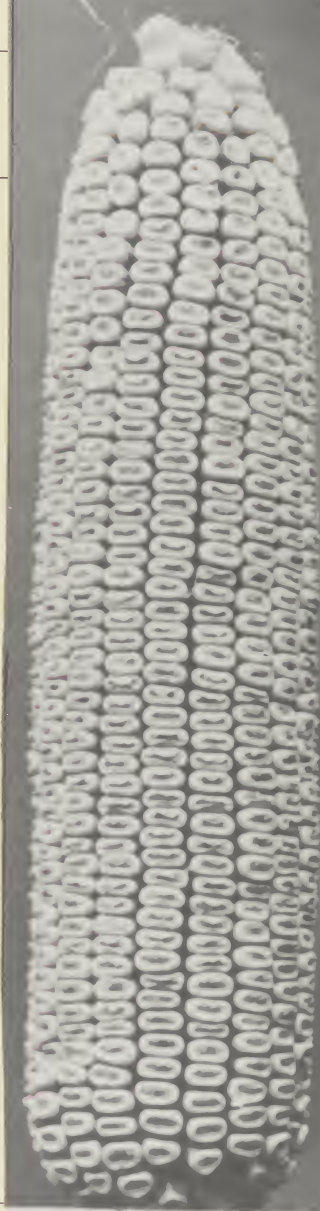
38

DESCRIPTIVE DATA FOR SAMPLE NUMBER 38-43

10 in.

9 in.

8 in.



38

43

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		
Items that required field or laboratory tests														
Bushels per acre	72.6	High				•		Median					Low	122-125
		78.1						71.7					61.0	
Percent of good corn	91.0	High	•					89.8					Low	126-129
		92.7											85.8	
Percent of moisture	20.0	Low	•										High	130-133
		17.9						21.4					24.9	
Percent of shelled corn	85.5	High							•				Low	134-137
		87.3						85.8					84.5	
Density of shelled corn	33.5	Heavy									•		Light	138-141
		35.6						34.2					32.4	
Germination index	93.0	High	•										Low	142-145
		93.8						87.1					64.5	
Disease index	75.6	Little						•					Much	146-149
		90.2						75.7					58.3	
Weight of ears	12.10	Heavy									•		Light	150-153
		15.07						12.75					10.35	
Yield test score Items observed by oldtime corn judges														
Density of ears +5	39.88	Heavy				•		Median					Light	154-157
		42.03						39.54					37.58	
Kernel development -3	50.2	Good									•		Poor	158-161
		78.6						56.4					38.3	
Indentation index -1	51.0	Smooth									•		Rough	162-165
		16.5						44.7					87.3	
Length of kernels -1	13.07	Long										•	Short	166-169
		15.72						13.41					12.47	
Width of kernels -1	7.77	Wide									•		Narrow	170-173
		9.01						7.92					7.12	
Thickness of kernels +1	4.23	Thick				•							Thin	174-177
		4.42						4.21					3.89	
Length of ears +1	8.87	Long							•				Short	178-181
		9.67						8.96					8.25	
Diameter of ears +1	2.087	Small	•										Large	182-185
		2.012						2.137					2.304	
No. of rows of kernels +1	18.5	Small							•				Large	186-189
		14.9						18.3					20.9	
Color of shank index -1	55.0	White											Dark	190-193
		86.7						67.7					36.7	
Condition of shank index +1	43.3	Smooth				•							Rough	194-197
		58.3						38.4					18.3	
Variation index +1	7.0	Uniform				•							Uneven	198-201
		3.0						7.0					11.0	
Total +4 A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														
202-205														

VOL. II

39

DESCRIPTIVE DATA FOR SAMPLE NUMBER 39-73

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		

Items that required field or laboratory tests

VOL. II

Bushels per acre	72.6	High				•	Median						Low	122-125
		78.1					71.7						61.0	
Percent of good corn	90.6	High			•								Low	126-129
		92.7					89.8						85.8	
Percent of moisture	20.1	Low	•										High	130-133
		17.9					21.4						24.9	
Percent of shelled corn	85.1	High									•		Low	134-137
		87.3					85.8						84.5	
Density of shelled corn	33.8	Heavy							•				Light	138-141
		35.6					34.2						32.4	
Germination index	83.1	High										•	Low	142-145
		93.8					87.1						64.5	
Disease index	74.3	Little						•					Much	146-149
		90.2					75.7						58.3	
Weight of ears	12.53	Heavy							•				Light	150-153
		15.07					12.75						10.35	

Yield test score

Items observed by oldtime corn judges

Density of ears	-5	38.00	Heavy				Median						Light	154-157
			42.03				39.54						37.58	
Kernel development	+1	59.5	Good			•							Poor	158-161
			78.6				56.4						38.3	
Indentation index	+1	56.5	Smooth								•		Rough	162-165
			16.5				44.7						87.3	
Length of kernels	+1	13.63	Long			•							Short	166-169
			15.72				13.41						12.47	
Width of kernels	+1	8.79	Wide			•							Narrow	170-173
			9.01				7.92						7.12	
Thickness of kernels	+1	4.21	Thick				•						Thin	174-177
			4.42				4.21						3.89	
Length of ears	+1	9.08	Long			•							Short	178-181
			9.67				8.96						8.25	
Diameter of ears	+1	2.150	Small				•						Large	182-185
			2.012				2.137						2.304	
No. of rows of kernels	+1	16.0	Small										Large	186-189
			14.9				18.3						20.9	
Color of shank index	-1	85.0	White										Dark	190-193
			86.7				67.7						36.7	
Condition of shank index	-1	21.7	Smooth										Rough	194-197
			58.3				38.4						18.3	
Variation index	+1	7.0	Uniform			•							Uneven	198-201
			3.0				7.0						11.0	

★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.

Sample No. 39-73, entered by

LESTER PFISTER

Selected and grown four years by Mr. Pfister.
He reported it to be a mixture of Silvermine and
Greene County White. It was one of only six white
samples in the tests.

39
73

40

DESCRIPTIVE DATA FOR SAMPLE NUMBER 40-66

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored
			1	2	3	4	5	6	7	8	9	10	

See page

Items that required field or laboratory tests

VOL. II

Bushels per acre	72.6	High 78.1						Median 71.7					Low 61.0
Percent of good corn	89.7	High 92.7						89.8					Low 85.8
Percent of moisture	21.1	Low 17.9						21.4					High 24.9
Percent of shelled corn	85.5	High 87.3						85.8					Low 84.5
Density of shelled corn	34.1	Heavy 35.6						34.2					Light 32.4
Germination index	90.0	High 93.8						87.1					Low 64.5
Disease index	70.7	Little 90.2						75.7					Much 58.3
Weight of ears	13.60	Heavy 15.07						12.75					Light 10.35

122-125

126-129

130-133

134-137

138-141

142-145

146-149

150-153

Yield
test
score

Items observed by oldtime corn judges

Density of ears	-1 38.79	Heavy 42.03						Median 39.54					Light 37.58
Kernel development	+1 53.8	Good 78.6						56.4					Poor 38.3
Indentation index	+3 33.2	Smooth 16.5						44.7					Rough 87.3
Length of kernels	+1 13.30	Long 15.72						13.41					Short 12.47
Width of kernels	+1 7.88	Wide 9.01						7.92					Narrow 7.12
Thickness of kernels	+1 4.41	Thick 4.42						4.21					Thin 3.89
Length of ears	-1 9.29	Long 9.67						8.96					Short 8.25
Diameter of ears	-3 2.192	Small 2.012						2.137					Large 2.304
No. of rows of kernels	-1 18.9	Small 14.9						18.3					Large 20.9
Color of shank index	-1 78.3	White 86.7						67.7					Dark 36.7
Condition of shank index	-1 31.7	Smooth 58.3						38.4					Rough 18.3
Variation index	+1 7.0	Uniform 3.0						7.0					Uneven 11.0

154-157

158-161

162-165

166-169

170-173

174-177

178-181

182-185

186-189

190-193

194-197

198-201

202-205

★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.

Sample No. 40-66, entered by

C.R. BURROUGHS

Selected and grown 12 years by Mr. Burroughs.
His seed was obtained from a neighbor, Walter Stotler.

40
66

41

DESCRIPTIVE DATA FOR SAMPLE NUMBER 41-110

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		
Items that required field or laboratory tests													Vol. II	
Bushels per acre	72.5	High				•		Median				Low	122-125	
		78.1						71.7				61.0		
Percent of good corn	91.5	High										Low	126-129	
		92.7	•					89.8				85.8		
Percent of moisture	21.1	Low				•						High	130-133	
		17.9						21.4				24.9		
Percent of shelled corn	85.5	High								•		Low	134-137	
		87.3						85.8				84.5		
Density of shelled corn	34.8	Heavy	•									Light	138-141	
		35.6						34.2				32.4		
Germination index	87.3	High					•					Low	142-145	
		93.8						87.1				64.5		
Disease index	74.3	Little							•			Much	146-149	
		90.2						75.7				58.3		
Weight of ears	12.47	Heavy								•		Light	150-153	
		15.07						12.75				10.35		
Yield test score Items observed by oldtime corn judges														
Density of ears +5	40.03	Heavy				•		Median				Light	154-157	
		42.03						39.54				37.58		
Kernel development +3	72.4	Good										Poor	158-161	
		78.6	•					56.4				38.3		
Indentation index +3	35.5	Smooth	•									Rough	162-165	
		16.5						44.7				87.3		
Length of kernels -1	12.99	Long									•	Short	166-169	
		15.72						13.41				12.47		
Width of kernels +1	8.04	Wide				•						Narrow	170-173	
		9.01						7.92				7.12		
Thickness of kernels +1	4.33	Thick										Thin	174-177	
		4.42	•					4.21				3.89		
Length of ears -1	9.21	Long										Short	178-181	
		9.67	•					8.96				8.25		
Diameter of ears +1	2.075	Small	•									Large	182-185	
		2.012						2.137				2.304		
No. of rows of kernels +1	17.1	Small	•									Large	186-189	
		14.9						18.3				20.9		
Color of shank index +1	73.3	White				•						Dark	190-193	
		86.7						67.7				36.7		
Condition of shank index -1	28.3	Smooth									•	Rough	194-197	
		58.3						38.4				18.3		
Variation index +1	7.0	Uniform				•						Uneven	198-201	
		3.0						7.0				11.0		
Total +14													202-205	
★ A relationship of each descriptive item to yield and to all other items													205	

Sample No. 41-110, entered by

CHRIS STUDEP and SONS

No records of the years selected and grown and the source of this sample were obtained.

41
110

42

DESCRIPTIVE DATA FOR SAMPLE NUMBER 42-111

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		

Items that required field or laboratory tests

VOL. II

Bushels per acre	72.5	High 78.1				●	Median 71.7						Low 61.0	122-125
Percent of good corn	90.4	High 92.7				●	89.8						Low 85.8	126-129
Percent of moisture	22.3	Low 17.9					21.4			●			High 24.9	130-133
Percent of shelled corn	85.8	High 87.3					85.8						Low 84.5	134-137
Density of shelled corn	34.7	Heavy 35.6		●			34.2						Light 32.4	138-141
Germination index	77.8	High 93.8					87.1						Low 64.5	142-145
Disease index	67.8	Little 90.2					75.7				●		Much 58.3	146-149
Weight of ears	13.37	Heavy 15.07	●				12.75						Light 10.35	150-153

Yield
test
score

Items observed by oldtime corn judges

Density of ears	-1	38.79	Heavy 42.03				Median 39.54			●			Light 37.58	154-157
Kernel development	+3	64.5	Good 78.6	●			56.4						Poor 38.3	158-161
Indentation index	-1	45.0	Smooth 16.5				44.7			●			Rough 87.3	162-165
Length of kernels	+3	13.76	Long 15.72		●		13.41						Short 12.47	166-169
Width of kernels	-3	7.61	Wide 9.01				7.92					●	Narrow 7.12	170-173
Thickness of kernels	+1	4.28	Thick 4.42		●		4.21						Thin 3.89	174-177
Length of ears	+1	8.67	Long 9.67				8.96					●	Short 8.25	178-181
Diameter of ears	-3	2.250	Small 2.012				2.137						Large 2.304	182-185
No. of rows of kernels	-5	19.7	Small 14.9				18.3					●	Large 20.9	186-189
Color of shank index	-1	80.0	White 86.7	●			67.7						Dark 36.7	190-193
Condition of shank index	+1	45.0	Smooth 58.3		●		38.4						Rough 18.3	194-197
Variation index	-1	9.0	Uniform 3.0				7.0						Uneven 11.0	198-201

★ *Total -4*
A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.

202-205

Sample No. 42-111, entered by

BEN HEIKEN

No records of the years selected and grown and the source of the seed of this sample were obtained.

See pages 210 and 211.

42
111

DESCRIPTIVE DATA FOR SAMPLE NUMBER 43-31

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														
Bushels per acre	72.5	High											Low	122-
		78.1				•							61.0	125
Percent of good corn	90.2	High					•						Low	126-
		92.7											85.8	129
Percent of moisture	22.8	Low											High	130-
		17.9										•	24.9	133
Percent of shelled corn	85.2	High											Low	134-
		87.3										•	84.5	137
Density of shelled corn	34.3	Heavy											Light	138-
		35.6					•						32.4	141
Germination index	90.5	High											Low	142-
		93.8		•									64.5	145
Disease index	74.5	Little											Much	146-
		90.2						•					58.3	149
Weight of ears	13.30	Heavy											Light	150-
		15.07		•									10.35	153

Vol. II

Yield
Test
per acre

Items observed by oldtime corn judges

Density of ears	-5 38.53	Heavy											Light	154-
		42.03											37.58	157
Kernel development	-7 45.4	Good											Poor	158-
		78.6											38.3	161
Indentation index	-1 56.2	Smooth									•		Rough	162-
		16.5											87.3	165
Length of kernels	+3 13.87	Long		•									Short	166-
		15.72											12.47	169
Width of kernels	+1 8.13	Wide											Narrow	170-
		9.01			•								7.12	173
Thickness of kernels	+1 4.19	Thick											Thin	174-
		4.42						•					3.89	177
Length of ears	-1 9.29	Long		•									Short	178-
		9.67											8.25	181
Diameter of ears	-1 2.175	Small									•		Large	182-
		2.012											2.304	185
No. of rows of kernels	+1 17.8	Small											Large	186-
		14.9				•							20.9	189
Color of shank index	+1 63.3	White											Dark	190-
		86.7								•			36.7	193
Condition of shank index	+1 45.0	Smooth											Rough	194-
		58.3		•									18.3	197
Variation index	-1 8.0	Uniform											Uneven	198-
		3.0								•			11.0	201

★ *Total* -8
A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.

Sample No. 43-31, entered by

W.H. TUCKER

Selected and grown for one year only by Mr. Tucker.
It was a mixture of Reids Yellow Dent and Western
Flownman. Western Flownman was a good medium-early,
Quality type variety.

43
31

44

DESCRIPTIVE DATA FOR SAMPLE NUMBER 44-12

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														
Bushels per acre	72.4	High										Low	122-	
		78.1										61.0	125	
Percent of good corn	90.5	High										Low	126-	
		92.7										85.8	129	
Percent of moisture	23.6	Low										High	130-	
		17.9										24.9	133	
Percent of shelled corn	86.1	High										Low	134-	
		87.3										84.5	137	
Density of shelled corn	33.8	Heavy										Light	138-	
		35.6										32.4	144	
Germination index	86.5	High										Low	142-	
		93.8										64.5	145	
Disease index	82.6	Little										Much	146-	
		90.2										58.3	149	
Weight of ears	13.92	Heavy										Light	150-	
		15.07										10.35	153	
Yield test score Items observed by oldtime corn judges														
Density of ears	+3 40.63	Heavy										Light	154-	
		42.03										37.58	157	
Kernel development	+1 55.5	Good										Poor	158-	
		78.6										38.3	161	
Indentation index	+3 37.7	Smooth										Rough	162-	
		16.5										87.3	165	
Length of kernels	+3 13.67	Long										Short	166-	
		15.72										12.47	169	
Width of kernels	+1 7.97	Wide										Narrow	170,	
		9.01										7.12	173	
Thickness of kernels	+1 4.35	Thick										Thin	174-	
		4.42										3.89	177	
Length of ears	-1 9.29	Long										Short	178-	
		9.67										8.25	181	
Diameter of ears	+1 2.167	Small										Large	182-	
		2.012										2.304	185	
No. of rows of kernels	-5 19.4	Small										Large	186-	
		14.9										20.9	189	
Color of shank index	-1 60.0	White										Dark	190-	
		86.7										36.7	193	
Condition of shank index	+7 53.4	Smooth										Rough	194-	
		58.3										18.3	197	
Variation index	-1 8.0	Uniform										Uneven	198-	
		3.0										11.0	201	
Total +12 ★ A relationship of each descriptive item to yield and to all other items														
202-														
205														

44
12

Sample No. 44-12, entered by

C.F. WERTZ

No record about the years selected and grown.
Mr. Wertz's seed was obtained from Wm B. Otwell.
See pages 210 and 211.

45

DESCRIPTIVE DATA FOR SAMPLE NUMBER 45-32

0 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		
Items that required field or laboratory tests														
Bushels per acre	72.3	High 78.1				•	Median 71.7						Low 61.0	122-125
Percent of good corn	91.0	High 92.7	•				89.8						Low 85.8	126-129
Percent of moisture	20.8	Low 17.9				•	21.4						High 24.9	130-133
Percent of shelled corn	86.2	High 87.3		•			85.8						Low 84.5	134-137
Density of shelled corn	34.0	Heavy 35.6					34.2	•					Light 32.4	138-141
Germination index	79.3	High 93.8					87.1						Low 64.5	142-145
Disease index	67.4	Little 90.2					75.7				•		Much 58.3	146-149
Weight of ears	11.57	Heavy 15.07					12.75						Light 10.35	150-153
Yield Test score Items observed by oldtime corn judges														
Density of ears	-1 39.29	Heavy 42.03					Median 39.54	•					Light 37.58	154-157
Kernel development	+1 5.45	Good 78.6					56.4	•					Poor 38.3	158-161
Indentation index	-1 49.0	Smooth 16.5					44.7	•					Rough 87.3	162-165
Length of kernels	-1 13.17	Long 15.72					13.41			•			Short 12.47	166-169
Width of kernels	-1 7.79	Wide 9.01					7.92	•					Narrow 7.12	170-173
Thickness of kernels	+1 4.18	Thick 4.42					4.21	•					Thin 3.89	174-177
Length of ears	+1 8.96	Long 9.67					8.96	•					Short 8.25	178-181
Diameter of ears	+1 2.046	Small 2.012	•				2.137						Large 2.304	182-185
No. of rows of kernels	+1 17.7	Small 14.9				•	18.3						Large 20.9	186-189
Color of shank index	+1 68.3	White 86.7					67.7	•					Dark 36.7	190-193
Condition of shank index	-1 38.3	Smooth 58.3					38.4	•					Rough 18.3	194-197
Variation index	-1 8.0	Uniform 3.0					7.0	•					Uneven 11.0	198-201
Total ± 0														
★ A relationship of each descriptive item to yield and to all other items														
Vol. II														

45
32

Sample No. 45-32, entered by

MATTHEW McNAMARA

Selected and grown only one year by Mr. McNamara.
His seed was obtained from J.J. Schneider, whose
seed was entered as No. 115-40. See page 177.

DESCRIPTIVE DATA FOR SAMPLE NUMBER 46-88

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														VOL. II
Bushels per acre	72.3	High 78.1				•	Median 71.7						Low 61.0	122- 125
Percent of good corn	89.4	High 92.7					89.8		•				Low 85.8	126- 129
Percent of moisture	21.1	Low 17.9				•	21.4						High 24.9	130- 133
Percent of shelled corn	85.6	High 87.3					85.8		•				Low 84.5	134- 137
Density of shelled corn	34.1	Heavy 35.6					34.2		•				Light 32.4	138- 141
Germination index	92.2	High 93.8	•				87.1						Low 64.5	142- 145
Disease index	65.7	Little 90.2					75.7						Much 58.3	146- 149
Weight of ears	13.28	Heavy 15.07		•			12.75						Light 10.35	150- 153
Yield per acre Items observed by oldtime corn judges														
Density of ears	-3 38.75	Heavy 42.03					Median 39.54				•		Light 37.58	154- 157
Kernel development	+1 53.6	Good 78.6					56.4		•				Poor 38.3	158- 161
Indentation index	+1 44.7	Smooth 16.5				•	44.7						Rough 87.3	162- 165
Length of kernels	+1 13.57	Long 15.72			•		13.41						Short 12.47	166- 169
Width of kernels	+1 8.41	Wide 9.01	•				7.92						Narrow 7.12	170- 173
Thickness of kernels	+1 4.28	Thick 4.42		•			4.21						Thin 3.89	174- 177
Length of ears	-1 9.37	Long 9.67	•				8.96						Short 8.25	178- 181
Diameter of ears	+1 2.158	Small 2.012					2.137		•				Large 2.304	182- 185
No. of rows of kernels	+1 17.0	Small 14.9	•				18.3						Large 20.9	186- 189
Color of shank index	+1 65.0	White 86.7					67.7		•				Dark 36.7	190- 193
Condition of shank index	-1 23.3	Smooth 58.3					38.4				•		Rough 18.3	194- 197
Variation index	+1 6.0	Uniform 3.0	•				7.0						Uneven 11.0	198- 201
Total +4														
A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														
202- 205														

46
88

Sample No. 46-88, entered by

FRANK FAGOT

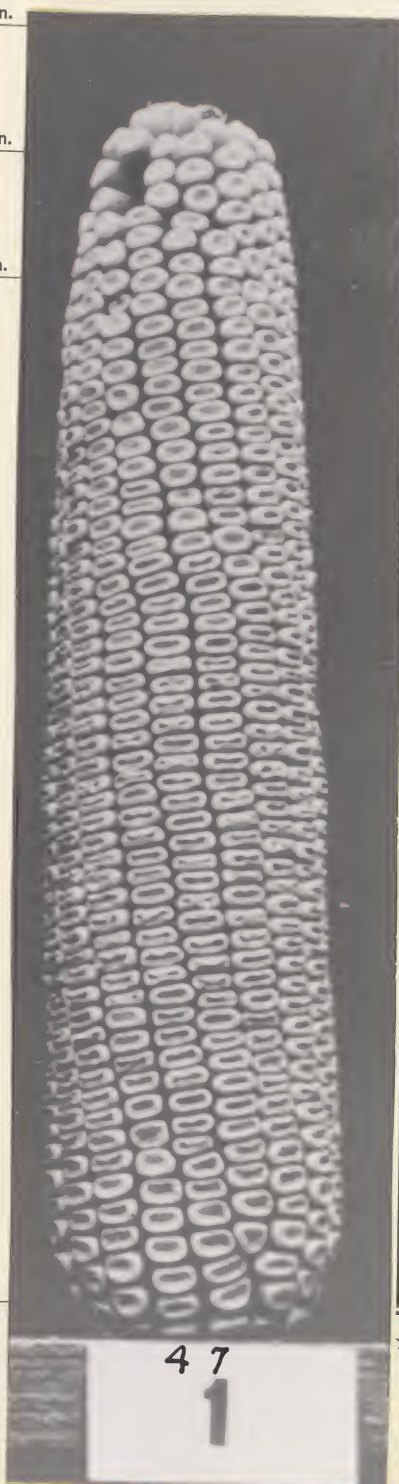
Selected and grown 20 years by Mr. Fagot.
There is no record of the source of his seed.

DESCRIPTIVE DATA FOR SAMPLE NUMBER 47-1

10 in.

9 in.

8 in.



Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		

Items that required field or laboratory tests

Vol. II

Bushels per acre	72.3	High 78.1				•	Median 71.7						Low 61.0	122-125
Percent of good corn	90.7	High 92.7	•				89.8						Low 85.8	126-129
Percent of moisture	21.7	Low 17.9					21.4	•					High 24.9	130-133
Percent of shelled corn	85.4	High 87.3					85.8		•				Low 84.5	134-137
Density of shelled corn	33.9	Heavy 35.6					34.2		•				Light 32.4	138-141
Germination index	83.6	High 93.8					87.1		•				Low 64.5	142-145
Disease index	80.2	Little 90.2	•				75.7						Much 58.3	146-149
Weight of ears	12.73	Heavy 15.07					12.75	•					Light 10.35	150-153

Yield test score

Items observed by oldtime corn judges

Density of ears	-1	39.33	Heavy 42.03				Median 39.54	•					Light 37.58	154-157
Kernel development	+3	71.0	Good 78.6	•			56.4						Poor 38.3	158-161
Indentation index	+1	40.2	Smooth 16.5			•	44.7						Rough 87.3	162-165
Length of kernels	-1	13.08	Long 15.72				13.41				•		Short 12.47	166-169
Width of kernels	-1	7.75	Wide 9.01				7.92			•			Narrow 7.12	170-173
Thickness of kernels	+1	4.38	Thick 4.42	•			4.21						Thin 3.89	174-177
Length of ears	-1	9.25	Long 9.67	•			8.96						Short 8.25	178-181
Diameter of ears	+1	2.111	Small 2.012		•		2.137						Large 2.304	182-185
No. of rows of kernels	+1	18.1	Small 14.9				18.3	•					Large 20.9	186-189
Color of shank index	-1	78.3	White 86.7	•			67.7						Dark 36.7	190-193
Condition of shank index	+3	46.7	Smooth 58.3	•			38.4						Rough 18.3	194-197
Variation index	-1	8.0	Uniform 3.0				7.0	•					Uneven 11.0	198-201

* A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.

Sample No. 47-1, entered by

CHARLES BLANCHARD

Selected and grown 15 years by Mr. Blanchard.
His seed was obtained from Ben McClintoch.

47

1

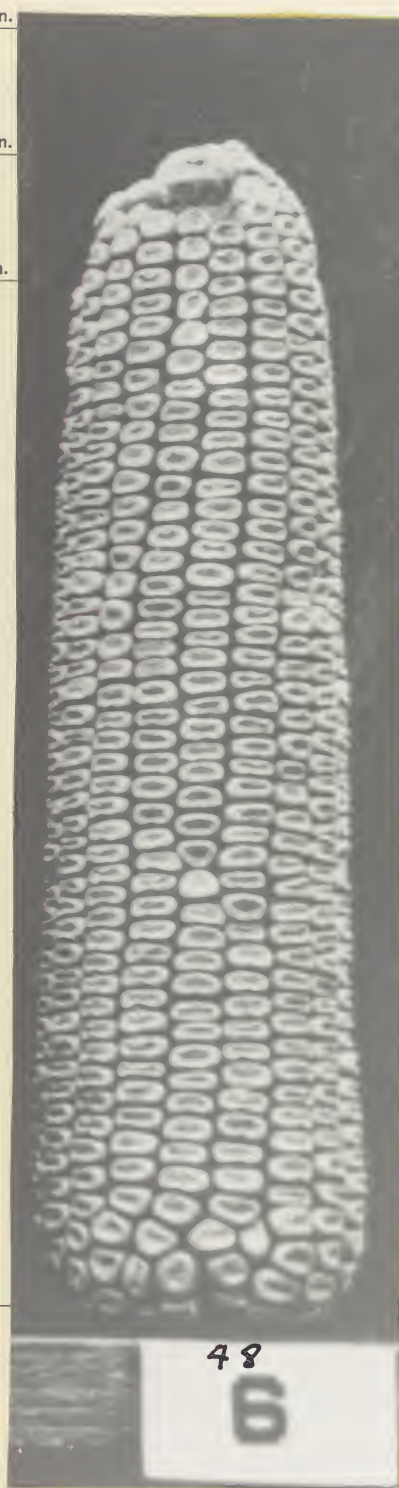
48

DESCRIPTIVE DATA FOR SAMPLE NUMBER 48-6

10 in.

9 in.

8 in.



48

6

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														VOL. II
Bushels per acre	72.3	High 78.1			•	Median 71.7						Low 61.0	122-125	
Percent of good corn	90.6	High 92.7		•		89.8						Low 85.8	126-129	
Percent of moisture	23.1	Low 17.9				21.4				•		High 24.9	130-133	
Percent of shelled corn	86.0	High 87.3		•		85.8						Low 84.5	134-137	
Density of shelled corn	33.2	Heavy 35.6				34.2						Light 32.4	138-141	
Germination index	64.5	High 93.8				87.1						Low 64.5	142-145	
Disease index	64.3	Little 90.2				75.7						Much 58.3	146-149	
Weight of ears	13.02	Heavy 15.07		•		12.75						Light 10.35	150-153	
Yield Test Items observed by oldtime corn judges														
Density of ears	-3 38.76	Heavy 42.03				Median 39.54				•		Light 37.58	154-157	
Kernel development	+1 53.6	Good 78.6				56.4				•		Poor 38.3	158-161	
Indentation index	+1 39.2	Smooth 16.5			•	44.7						Rough 87.3	162-165	
Length of kernels	+1 13.35	Long 15.72				13.41				•		Short 12.47	166-169	
Width of kernels	+1 8.35	Wide 9.01	•			7.92						Narrow 7.12	170-173	
Thickness of kernels	+1 4.15	Thick 4.42				4.21				•		Thin 3.89	174-177	
Length of ears	+1 9.04	Long 9.67			•	8.96						Short 8.25	178-181	
Diameter of ears	-1 2.175	Small 2.012				2.137				•		Large 2.304	182-185	
No. of rows of kernels	+1 17.4	Small 14.9		•		18.3						Large 20.9	186-189	
Color of shank index	-1 61.7	White 86.7				67.7				•		Dark 36.7	190-193	
Condition of shank index	+1 46.7	Smooth 58.3		•		38.4						Rough 18.3	194-197	
Variation index	-1 8.0	Uniform 3.0				7.0				•		Uneven 11.0	198-201	
Total +2														202-205
★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														

Sample No. 48-6, entered by

P. A. FELTER

Selected and grown one year only by Mr. Felter.
His seed was obtained from John Martin, a neighbor.

49

DESCRIPTIVE DATA FOR SAMPLE NUMBER 49-53

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		

Items that required field or laboratory tests

Vol. II

Bushels per acre	72.2	High						Median					Low	122-125
		78.1						71.7					61.0	
Percent of good corn	89.5	High						89.8					Low	126-129
		92.7											85.8	
Percent of moisture	22.2	Low											High	130-133
		17.9						21.4					24.9	
Percent of shelled corn	85.3	High											Low	134-137
		87.3						85.8					84.5	
Density of shelled corn	34.4	Heavy											Light	138-141
		35.6						34.2					32.4	
Germination index	84.1	High											Low	142-145
		93.8						87.1					64.5	
Disease index	83.3	Little											Much	146-149
		90.2						75.7					58.3	
Weight of ears	13.20	Heavy											Light	150-153
		15.07						12.75					10.35	

Yield test
Acres

Items observed by oldtime corn judges

Density of ears	-1 38.81	Heavy						Median					Light	154-157
		42.03						39.54					37.58	
Kernel development	+1 57.1	Good						56.4					Poor	158-161
		78.6											38.3	
Indentation index	-1 46.7	Smooth						44.7					Rough	162-165
		16.5											87.3	
Length of kernels	+3 13.70	Long											Short	166-169
		15.72						13.41					12.47	
Width of kernels	+1 8.28	Wide											Narrow	170-173
		9.01						7.92					7.12	
Thickness of kernels	+1 4.33	Thick											Thin	174-177
		4.42						4.21					3.89	
Length of ears	-1 9.12	Long											Short	178-181
		9.67						8.96					8.25	
Diameter of ears	-1 2.179	Small											Large	182-185
		2.012						2.137					2.304	
No. of rows of kernels	+1 18.6	Small											Large	186-189
		14.9						18.3					20.9	
Color of shank index	-1 75.0	White											Dark	190-193
		86.7						67.7					36.7	
Condition of shank index	-1 38.3	Smooth											Rough	194-197
		58.3						38.4					18.3	
Variation index	+1 7.0	Uniform											Uneven	198-201
		3.0						7.0					11.0	

* Total +2
A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.

Sample No. 49-53, entered by

WILLIAM BEEP.

Selected and grown three years by Mr. Beer.
His seed was obtained from Dan Steffen and John Wolber.

49
53

50

DESCRIPTIVE DATA FOR SAMPLE NUMBER 50-29

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		
Items that required field or laboratory tests														
Bushels per acre	72.2	High 78.1					●	Median 71.7					Low 61.0	122-125
Percent of good corn	87.1	High 92.7						89.8					Low 85.8	126-129
Percent of moisture	23.6	Low 17.9						21.4					High 24.9	130-133
Percent of shelled corn	86.1	High 87.3		●				85.8					Low 84.5	134-137
Density of shelled corn	34.3	Heavy 35.6			●			34.2					Light 32.4	138-141
Germination index	85.9	High 93.8						87.1	●				Low 64.5	142-145
Disease index	77.1	Little 90.2			●			75.7					Much 58.3	146-149
Weight of ears	14.33	Heavy 15.07						12.75					Light 10.35	150-153
Yield test score Items observed by oldtime corn judges														
Density of ears +3	40.49	Heavy 42.03	●					Median 39.54					Light 37.58	154-157
Kernel development +3	67.6	Good 78.6	●					56.4					Poor 38.3	158-161
Indentation index +3	38.5	Smooth 16.5		●				44.7					Rough 87.3	162-165
Length of kernels +3	13.81	Long 15.72	●					13.41					Short 12.47	166-169
Width of kernels -5	7.50	Wide 9.01						7.92					Narrow 7.12	170-173
Thickness of kernels +1	4.29	Thick 4.42	●					4.21					Thin 3.89	174-177
Length of ears -1	9.33	Long 9.67	●					8.96					Short 8.25	178-181
Diameter of ears -3	2.196	Small 2.012						2.137			●		Large 2.304	182-185
No. of rows of kernels -5	20.1	Small 14.9						18.3					Large 20.9	186-189
Color of shank index +1	66.7	White 86.7						67.7	●				Dark 36.7	190-193
Condition of shank index +1	43.3	Smooth 58.3			●			38.4					Rough 18.3	194-197
Variation index +1	7.0	Uniform 3.0		●				7.0					Uneven 11.0	198-201
Total +2 A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														

202-205

Vol. 1

Sample No. 50-29, entered by

W.H. ARMSTRONG

There is no record of the years selected and grown or of the source of the seed.

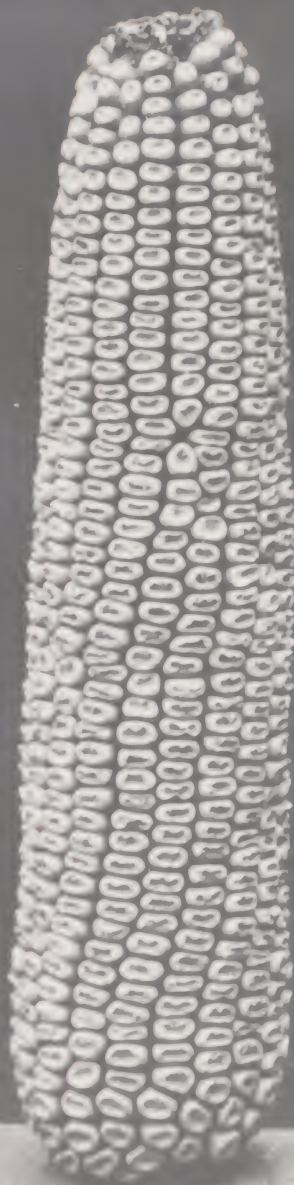
50
29

DESCRIPTIVE DATA FOR SAMPLE NUMBER 51-95

10 in.

9 in.

8 in.



51
95

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														
Bushels per acre	72.1	High					Median						Low	122-125
		78.1					71.7						61.0	
Percent of good corn	88.7	High											Low	126-129
		92.7					89.8						85.8	
Percent of moisture	18.9	Low											High	130-133
		17.9					21.4						24.9	
Percent of shelled corn	86.5	High											Low	134-137
		87.3					85.8						84.5	
Density of shelled corn	34.0	Heavy											Light	138-141
		35.6					34.2						32.4	
Germination index	81.7	High											Low	142-145
		93.8					87.1						64.5	
Disease index	73.3	Little											Much	146-149
		90.2					75.7						58.3	
Weight of ears	12.52	Heavy											Light	150-153
		15.07					12.75						10.35	
Yield test score Items observed by oldtime corn judges														
Density of ears	-1 38.81	Heavy					Median						Light	154-157
		42.03					39.54						37.58	
Kernel development	+1 52.9	Good											Poor	158-161
		78.6					56.4						38.3	
Indentation index	-1 50.7	Smooth											Rough	162-165
		16.5					44.7						87.3	
Length of kernels	+3 13.69	Long											Short	166-169
		15.72					13.41						12.47	
Width of kernels	-1 7.83	Wide											Narrow	170-173
		9.01					7.92						7.12	
Thickness of kernels	+1 4.23	Thick											Thin	174-177
		4.42					4.21						3.89	
Length of ears	+1 8.96	Long											Short	178-181
		9.67					8.96						8.25	
Diameter of ears	+1 2.141	Small											Large	182-185
		2.012					2.137						2.304	
No. of rows of kernels	-3 19.1	Small											Large	186-189
		14.9					18.3						20.9	
Color of shank index	-1 80.0	White											Dark	190-193
		86.7					67.7						36.7	
Condition of shank index	+1 43.3	Smooth											Rough	194-197
		58.3					38.4						18.3	
Variation index	+1 7.0	Uniform											Uneven	198-201
		3.0					7.0						11.0	
Total +2														
A relationship of each descriptive item to yield and to all other items														
202-														
205														

Vol. II

52

DESCRIPTIVE DATA FOR SAMPLE NUMBER 52-2

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		
Items that required field or laboratory tests														VOL. II
Bushels per acre	72.1	High 78.1					Median 71.7						Low 61.0	122- 125
Percent of good corn	90.5	High 92.7		•			89.8						Low 85.8	126- 129
Percent of moisture	21.2	Low 17.9					21.4						High 24.9	130- 133
Percent of shelled corn	85.4	High 87.3			•		85.8						Low 84.5	134- 137
Density of shelled corn	33.6	Heavy 35.6					34.2				•		Light 32.4	138- 141
Germination index	86.7	High 93.8					87.1	•					Low 64.5	142- 145
Disease index	80.5	Little 90.2		•			75.7						Much 58.3	146- 149
Weight of ears	11.45	Heavy 15.07					12.75				•		Light 10.35	150- 153
Yield test score Items observed by oldtime corn judges														
Density of ears	+5 39.81	Heavy 42.03				•	Median 39.54						Light 37.58	154- 157
Kernel development	+1 61.4	Good 78.6				•	56.4						Poor 38.3	158- 161
Indentation index	+3 37.2	Smooth 16.5	•				44.7						Rough 87.3	162- 165
Length of kernels	+1 13.48	Long 15.72					13.41	•					Short 12.47	166- 169
Width of kernels	+1 7.90	Wide 9.01					7.92	•					Narrow 7.12	170- 173
Thickness of kernels	+1 4.25	Thick 4.42				•	4.21						Thin 3.89	174- 177
Length of ears	+1 8.67	Long 9.67					8.96				•		Short 8.25	178- 181
Diameter of ears	+1 2.100	Small 2.012		•			2.137						Large 2.304	182- 185
No. of rows of kernels	-1 18.9	Small 14.9					18.3		•				Large 20.9	186- 189
Color of shank index	-1 86.7	White 86.7	•				67.7						Dark 36.7	190- 193
Condition of shank index	+7 53.4	Smooth 58.3	•				38.4						Rough 18.3	194- 197
Variation index	+1 7.0	Uniform 3.0		•			7.0						Uneven 11.0	198- 201
Total +20 ★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														202- 205

52

Sample No. 52-2, entered by

Mrs. JUCY DARST

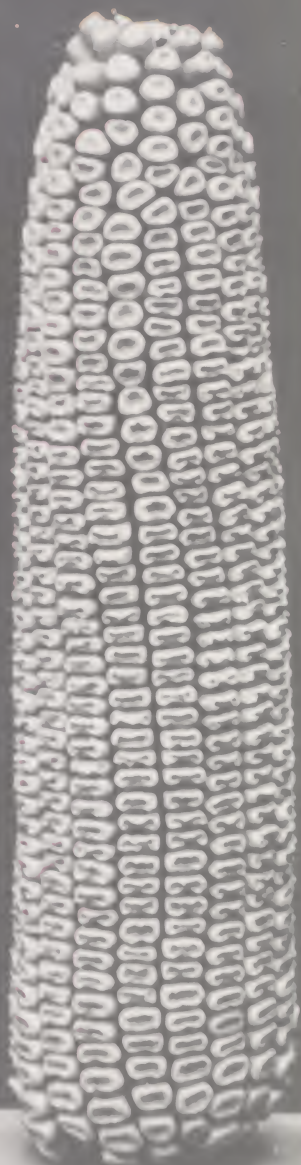
Selected and grown five years by Mrs. Darst.
 The source of the seed was not recorded.
 Mrs. Darst's sample was one of the ten high
 "yield-test-score" samples. Page ~~144~~ 202.

DESCRIPTIVE DATA FOR SAMPLE NUMBER 53-91

10 in.

9 in.

8 in.

53
91

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														
Bushels per acre	72.0	High				Median						Low	122-	
		78.1				71.7						61.0	125	
Percent of good corn	88.6	High										Low	126-	
		92.7				89.8						85.8	129	
Percent of moisture	20.4	Low										High	130-	
		17.9				21.4						24.9	133	
Percent of shelled corn	85.7	High										Low	134-	
		87.3				85.8						84.5	137	
Density of shelled corn	33.7	Heavy										Light	138-	
		35.6				34.2						32.4	144	
Germination index	91.2	High										Low	142-	
		93.8				87.1						64.5	145	
Disease index	74.3	Little										Much	146-	
		90.2				75.7						58.3	149	
Weight of ears	12.53	Heavy										Light	150-	
		15.07				12.75						10.35	153-	

Vol. II

Yield test score

Items observed by oldtime corn judges

Density of ears	-3	38.76	Heavy 42.03				Median 39.54						Light 37.58	154-157
Kernel development	-3	50.9	Good 78.6				56.4						Poor 38.3	158-161
Indentation index	-1	48.5	Smooth 16.5				44.7						Rough 87.3	162-165
Length of kernels	+1	13.57	Long 15.72				13.41						Short 12.47	166-169
Width of kernels	-1	7.83	Wide 9.01				7.92						Narrow 7.12	170-173
Thickness of kernels	+1	4.07	Thick 4.42				4.21						Thin 3.89	174-177
Length of ears	+1	8.67	Long 9.67				8.96						Short 8.25	178-181
Diameter of ears	-1	2.179	Small 2.012				2.137						Large 2.304	182-185
No. of rows of kernels	-3	19.3	Small 14.9				18.3						Large 20.9	186-189
Color of shank index	+1	70.0	White 86.7				67.7						Dark 36.7	190-193
Condition of shank index	-1	31.7	Smooth 58.3				38.4						Rough 18.3	194-197
Variation index	+1	7.0	Uniform 3.0				7.0						Uneven 11.0	198-201

★ *Total -2*
A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.

Sample No. 53-91, as tested by

AUGUST SCHEIRER

Selected and grown 10 years by Mr. Scheirer.
His seed was obtained from his father. See
sample No. 51-95.

54

DESCRIPTIVE DATA FOR SAMPLE NUMBER 54-81

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														VOL. II
Bushels per acre	72.0	High					Median						Low	122-125
		78.1					71.7						61.0	
Percent of good corn	90.5	High											Low	126-129
		92.7					89.8						85.8	
Percent of moisture	21.2	Low											High	130-133
		17.9					21.4						24.9	
Percent of shelled corn	85.6	High											Low	134-137
		87.3					85.8						84.5	
Density of shelled corn	35.4	Heavy											Light	138-141
		35.6					34.2						32.4	
Germination index	92.2	High											Low	142-145
		93.8					87.1						64.5	
Disease index	77.9	Little											Much	146-149
		90.2					75.7						58.3	
Weight of ears	13.00	Heavy											Light	150-153
		15.07					12.75						10.35	
Yield test score Items observed by oldtime corn judges														
Density of ears +5	39.79	Heavy					Median						Light	154-157
		42.03					39.54						37.58	
Kernel development +3	67.2	Good											Poor	158-161
		78.6					56.4						38.3	
Indentation index +1	40.2	Smooth											Rough	162-165
		16.5					44.7						87.3	
Length of kernels +1	13.29	Long											Short	166-169
		15.72					13.41						12.47	
Width of kernels +1	8.05	Wide											Narrow	170-173
		9.01					7.92						7.12	
Thickness of kernels +1	4.32	Thick											Thin	174-177
		4.42					4.21						3.89	
Length of ears +1	9.00	Long											Short	178-181
		9.67					8.96						8.25	
Diameter of ears +1	2.150	Small											Large	182-185
		2.012					2.137						2.304	
No. of rows of kernels +1	18.1	Small											Large	186-189
		14.9					18.3						20.9	
Color of shank index +1	63.3	White											Dark	190-193
		86.7					67.7						36.7	
Condition of shank index -1	35.0	Smooth											Rough	194-197
		58.3					38.4						18.3	
Variation index +1	7.0	Uniform											Uneven	198-201
		3.0					7.0						11.0	
Total +16														202-205
★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														

Sample No. 54-81, entered by

W.J. NICHOLS

No record of the years selected and grown or of the source of the seed were obtained.

DESCRIPTIVE DATA FOR SAMPLE NUMBER 55-20

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														VOL. II
Bushels per acre	72.0	High				Median						Low	122-	
		78.1				71.7						61.0	125	
Percent of good corn	89.7	High										Low	126-	
		92.7				89.8						85.8	129	
Percent of moisture	22.1	Low										High	130-	
		17.9				21.4						24.9	133	
Percent of shelled corn	85.9	High										Low	134-	
		87.3				85.8						84.5	137	
Density of shelled corn	34.0	Heavy										Light	138-	
		35.6				34.2						32.4	141	
Germination index	89.8	High										Low	142-	
		93.8				87.1						64.5	145	
Disease index	85.5	Little										Much	146-	
		90.2				75.7						58.3	149	
Weight of ears	13.02	Heavy										Light	150-	
		15.07				12.75						10.35	153	
Yield test score Items observed by oldtime corn judges														
Density of ears +3	40.78	Heavy				Median						Light	154-	
		42.03				39.54						37.58	157	
Kernel development +3	67.4	Good										Poor	158-	
		78.6				56.4						38.3	161	
Indentation index -1	31.2	Smooth										Rough	162-	
		16.5				44.7						87.3	165	
Length of kernels -1	13.11	Long										Short	166-	
		15.72				13.41						12.47	169	
Width of kernels -1	7.82	Wide										Narrow	170-	
		9.01				7.92						7.12	173	
Thickness of kernels +1	4.22	Thick										Thin	174-	
		4.42				4.21						3.89	177	
Length of ears -1	9.29	Long										Short	178-	
		9.67				8.96						8.25	181	
Diameter of ears +1	2.092	Small										Large	182-	
		2.012				2.137						2.304	185	
No. of rows of kernels +1	18.3	Small										Large	186-	
		14.9				18.3						20.9	189	
Color of shank index +1	71.7	White										Dark	190-	
		86.7				67.7						36.7	193	
Condition of shank index +1	45.0	Smooth										Rough	194-	
		58.3				38.4						18.3	197	
Variation index +1	6.0	Uniform										Uneven	198-	
		3.0				7.0						11.0	201	
Total +8														202-
★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														205

Sample No. 55-20, entered by

L.W. POWELL

Selected and grown 10 years by Mr. Powell.
The seed was a mixture of seed obtained from Funk Brothers and others.

55
20

56

DESCRIPTIVE DATA FOR SAMPLE NUMBER 56-13

10 in.

9 in.

8 in.



Descriptive items	Value for this sample	Best or most favored	Decl group										Poorest or least favored	See page	
		1	2	3	4	5	6	7	8	9	10				
Items that required field or laboratory tests														VOL. II	
Bushels per acre	72.0	High 78.1					Median 71.7						Low 61.0	222- 125	
Percent of good corn	90.4	High 92.7					89.8						Low 85.8	126- 129	
Percent of moisture	22.2	Low 17.9					21.4						High 24.9	130- 133	
Percent of shelled corn	86.0	High 87.3					85.8						Low 84.5	134- 137	
Density of shelled corn	34.4	Heavy 35.6					34.2						Light 32.4	138- 141	
Germination index	74.7	High 93.8					87.1						Low 64.5	142- 145	
Disease index	76.1	Little 90.2					75.7						Much 58.3	146- 149	
Weight of ears	12.70	Heavy 15.07					12.75						Light 10.35	150- 153	
Yield test per acre															
Items observed by oldtime corn judges															
Density of ears	-3 38.78	Heavy 42.03					Median 39.54						Light 37.58	154- 157	
Kernel development	+1 53.6	Good 78.6					56.4						Poor 38.3	158- 161	
Indentation index	+1 42.5	Smooth 16.5					44.7						Rough 87.3	162- 165	
Length of kernels	+1 13.44	Long 15.72					13.41						Short 12.47	166- 169	
Width of kernels	-3 7.66	Wide 9.01					7.92						Narrow 7.12	170- 173	
Thickness of kernels	+1 4.19	Thick 4.42					4.21						Thin 3.89	174- 177	
Length of ears	+1 8.75	Long 9.67					8.96						Short 8.25	178- 181	
Diameter of ears	-1 2.183	Small 2.012					2.137						Large 2.304	182- 185	
No. of rows of kernels	-1 19.0	Small 14.9					18.3						Large 20.9	186- 189	
Color of shank index	-1 73.3	White 86.7					67.7						Dark 36.7	190- 193	
Condition of shank index	+3 46.7	Smooth 58.3					38.4						Rough 18.3	194- 197	
Variation index	-1 9.0	Uniform 3.0					7.0						Uneven 11.0	198- 201	
Total -2															202- 205
★ A relationship of each descriptive item to yield and to all other items															

Sample No. 56-13, entered by

JOHN VOORHEES

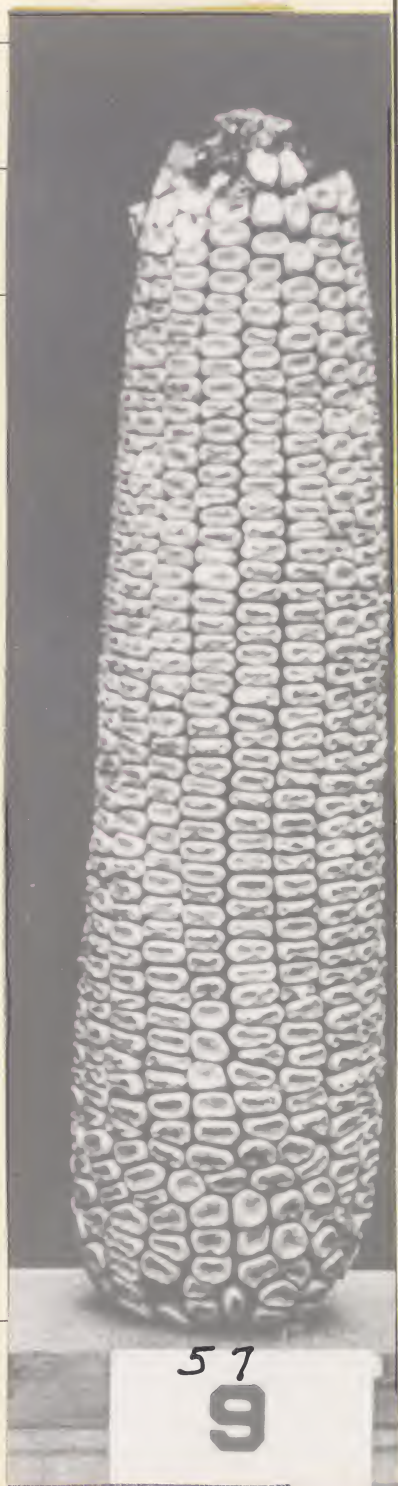
Selected and grown only one year by Mr. Voorhees.
His seed was obtained from L. Keile.

DESCRIPTIVE DATA FOR SAMPLE NUMBER 57-9

10 in.

9 in.

8 in.



Descriptive items	Value for this sample	Best or most favored	Decl group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		
Items that required field or laboratory tests														
Bushels per acre	72.0	High					Median						Low	122-
		78.1				71.7						61.0	125	
Percent of good corn	90.2	High											Low	126-
		92.7				89.8						85.8	129	
Percent of moisture	23.2	Low											High	130-
		17.9				21.4						24.9	133	
Percent of shelled corn	85.9	High											Low	134-
		87.3				85.8						84.5	137	
Density of shelled corn	32.9	Heavy											Light	138-
		35.6				34.2						32.4	141	
Germination index	76.9	High											Low	142-
		93.8				87.1						64.5	145	
Disease index	65.9	Little											Much	146-
		90.2				75.7						58.3	149	
Weight of ears	14.63	Heavy											Light	150-
		15.07				12.75						10.35	153	
Items observed by oldtime corn judges														
Density of ears	-1 38.88	Heavy					Median						Light	154-
		42.03				39.54						37.58	158	
Kernel development	+1 57.6	Good											Poor	158-
		78.6				56.4						38.3	161	
Indentation index	-1 50.0	Smooth											Rough	162-
		16.5				44.7						87.3	165	
Length of kernels	-5 14.27	Long											Short	166-
		15.72				13.41						12.47	169	
Width of kernels	+1 8.68	Wide											Narrow	170-
		9.01				7.92						7.12	173	
Thickness of kernels	+1 4.39	Thick											Thin	174-
		4.42				4.21						3.89	177	
Length of ears	-1 9.29	Long											Short	178-
		9.67				8.96						8.25	181	
Diameter of ears	-3 2.271	Small											Large	182-
		2.012				2.137						2.304	185	
No. of rows of kernels	+1 17.5	Small											Large	186-
		14.9				18.3						20.9	189	
Color of shank index	+1 65.0	White											Dark	190-
		86.7				67.7						36.7	193	
Condition of shank index	+1 41.7	Smooth											Rough	194-
		58.3				38.4						18.3	197	
Variation index	+1 6.0	Uniform											Uneven	198-
		3.0				7.0						11.0	201	
Total -4														
★ A relationship of each descriptive item to yield and to all other items														
202-205														

Sample No. 57-9, entered by

G.W. STOLLER

Selected and grown 10 years by Mr. Stoller.
His seed was obtained from Theodore Orth.

See pages 210 and 211

58

DESCRIPTIVE DATA FOR SAMPLE NUMBER 58-102

10 in.

9 in.

8 in.



58
102

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page	
			1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														VOL. II	
Bushels per acre	71.8	High 78.1					Median 71.7						Low 61.0	122-125	
Percent of good corn	89.3	High 92.7					89.8						Low 85.8	126-129	
Percent of moisture	20.6	Low 17.9					21.4						High 24.9	130-133	
Percent of shelled corn	86.2	High 87.3					85.8						Low 84.5	134-137	
Density of shelled corn	34.3	Heavy 35.6					34.2						Light 32.4	138-141	
Germination index	91.4	High 93.8					87.1						Low 64.5	142-145	
Disease index	65.5	Little 90.2					75.7						Much 58.3	146-149	
Weight of ears	11.48	Heavy 15.07					12.75						Light 10.35	150-153	
Yield test score Items observed by oldtime corn judges															
Density of ears	-1 39.68	Heavy 42.03					Median 39.54						Light 37.58	154-157	
Kernel development	+1 56.4	Good 78.6					56.4						Poor 38.3	158-161	
Indentation index	-1 45.7	Smooth 16.5					44.7						Rough 87.3	162-165	
Length of kernels	+1 13.25	Long 15.72					13.41						Short 12.47	166-169	
Width of kernels	+1 8.60	Wide 9.01					7.92						Narrow 7.12	170-173	
Thickness of kernels	-5 4.02	Thick 4.42					4.21						Thin 3.89	174-177	
Length of ears	+1 8.62	Long 9.67					8.96						Short 8.25	178-181	
Diameter of ears	+1 2.067	Small 2.012					2.137						Large 2.304	182-185	
No. of rows of kernels	+1 16.2	Small 14.9					18.3						Large 20.9	186-189	
Color of shank index	-1 81.7	White 86.7					67.7						Dark 36.7	190-193	
Condition of shank index	+1 45.0	Smooth 58.3					38.4						Rough 18.3	194-197	
Variation index	+1 6.0	Uniform 3.0					7.0						Uneven 11.0	198-201	
★ A relationship of each descriptive item to yield and to all other items															202-205

Sample No. 58-102, entered by

PETER STEIDER

Selected and grown two years by Mr. Steider.
His seed was obtained from Dave Steider.

59

DESCRIPTIVE DATA FOR SAMPLE NUMBER 59-106

10 in.

9 in.

8 in.



59

106

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		

Items that required field or laboratory tests

Vol. II

Bushels per acre	71.8	High 78.1					Median 71.7						Low 61.0	122-125
Percent of good corn	88.3	High 92.7					89.8						Low 85.8	126-129
Percent of moisture	22.1	Low 17.9					21.4						High 24.9	130-133
Percent of shelled corn	87.0	High 87.3					85.8						Low 84.5	134-137
Density of shelled corn	33.0	Heavy 35.6					34.2						Light 32.4	138-141
Germination index	85.5	High 93.8					87.1						Low 64.5	142-145
Disease index	67.6	Little 90.2					75.7						Much 58.3	146-149
Weight of ears	14.53	Heavy 15.07					12.75						Light 10.35	150-153

Yield
test
score

Items observed by oldtime corn judges

Density of ears	-1 39.40	Heavy 42.03					Median 39.54						Light 37.58	154-157
Kernel development	+1 54.1	Good 78.6					56.4						Poor 38.3	158-161
Indentation index	-7 70.2	Smooth 16.5					44.7						Rough 87.3	162-165
Length of kernels	-5 14.45	Long 15.72					13.41						Short 12.47	166-169
Width of kernels	-1 7.77	Wide 9.01					7.92						Narrow 7.12	170-173
Thickness of kernels	+1 4.19	Thick 4.42					4.21						Thin 3.89	174-177
Length of ears	-1 9.21	Long 9.67					8.96						Short 8.25	178-181
Diameter of ears	-3 2.258	Small 2.012					2.137						Large 2.304	182-185
No. of rows of kernels	-5 19.9	Small 14.9					18.3						Large 20.9	186-189
Color of shank index	-1 55.0	White 86.7					67.7						Dark 36.7	190-193
Condition of shank index	+1 40.0	Smooth 58.3					38.4						Rough 18.3	194-197
Variation index	+1 6.0	Uniform 3.0					7.0						Uneven 11.0	198-201

Total -20

★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.

Sample No. 59-106, entered by

JOHN SECKLER

Selected and grown 15 years by Mr. Seckler.
His seed was obtained from G. Mason.
Mr. Seckler's sample was selected in 1923 as one of
ten oldtime Show Type samples. Page 177 206.

This is one of the 12 low scoring samples. See page 202.

See also pages 210 and 211.

60

DESCRIPTIVE DATA FOR SAMPLE NUMBER 60-25

10 in

9 in

8 in

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		
Items that required field or laboratory tests														
Bushels per acre	71.7	High 78.1				Median 71.7						Low 61.0	122-125	
Percent of good corn	85.8	High 92.7				89.8						Low 85.8	126-129	
Percent of moisture	22.7	Low 17.9				21.4						High 24.9	130-133	
Percent of shelled corn	86.0	High 87.3				85.8						Low 84.5	134-137	
Density of shelled corn	32.9	Heavy 35.6				34.2						Light 32.4	138-141	
Germination index	87.6	High 93.8				87.1						Low 64.5	142-145	
Disease index	72.4	Little 90.2				75.7						Much 58.3	146-149	
Weight of ears	14.53	Heavy 15.07				12.75						Light 10.35	150-153	
Yield Test score Items observed by oldtime corn judges														
Density of ears -3	38.57	Heavy 42.03				Median 39.54						Light 37.58	154-158	
Kernel development +1	52.4	Good 78.6				56.4						Poor 38.3	158-161	
Indentation index -7	74.5	Smooth 16.5				44.7						Rough 87.3	162-165	
Length of kernels -5	14.67	Long 15.72				13.41						Short 12.47	166-169	
Width of kernels -1	7.71	Wide 9.01				7.92						Narrow 7.12	170-173	
Thickness of kernels +1	4.18	Thick 4.42				4.21						Thin 3.89	174-177	
Length of ears -1	9.17	Long 9.67				8.96						Short 8.25	178-181	
Diameter of ears -3	2.287	Small 2.012				2.137						Large 2.304	182-185	
No. of rows of kernels -5	20.5	Small 14.9				18.3						Large 20.9	186-189	
Color of shank index -1	80.0	White 86.7				67.7						Dark 36.7	190-193	
Condition of shank index +1	38.4	Smooth 58.3				38.4						Rough 18.3	194-197	
Variation index +1	7.0	Uniform 3.0				7.0						Uneven 11.0	198-201	
Total - 22														
★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														
202-205														

Sample No. 60-25, entered by

FRANK ARMSTRONG

Selected and grown nine years by Mr. Armstrong.
His seed was obtained from Charles Armstrong.
Mr. Armstrong's sample was one of the ten low yield-test-score samples. Page 175-202, also page 217.

60
25

61

DESCRIPTIVE DATA FOR SAMPLE NUMBER 61-26

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		
Items that required field or laboratory tests													VOL. II	
Bushels per acre	71.7	High				Median						Low	122-	
		78.1				71.7						61.0	125	
Percent of good corn	88.4	High										Low	126-	
		92.7				89.8						85.8	129	
Percent of moisture	23.3	Low										High	130-	
		17.9				21.4						24.9	133	
Percent of shelled corn	85.1	High										Low	134-	
		87.3				85.8						84.5	137	
Density of shelled corn	33.8	Heavy										Light	138-	
		35.6				34.2						32.4	141	
Germination index	85.6	High										Low	142-	
		93.8				87.1						64.5	145	
Disease index	76.7	Little										Much	146-	
		90.2				75.7						58.3	149	
Weight of ears	12.62	Heavy										Light	150-	
		15.07				12.75						10.35	153	
Yield test score Items observed by oldtime corn judges														
Density of ears	-1 39.45	Heavy				Median						Light	154-	
		42.03				39.54						37.58	157	
Kernel development	-3 51.9	Good										Poor	158-	
		78.6				56.4						38.3	161	
Indentation index	+1 42.0	Smooth										Rough	162-	
		16.5				44.7						87.3	165	
Length of kernels	+1 13.40	Long										Short	166-	
		15.72				13.41						12.47	169	
Width of kernels	+1 8.05	Wide										Narrow	170-	
		9.01				7.92						7.12	173	
Thickness of kernels	+1 4.13	Thick										Thin	174-	
		4.42				4.21						3.89	177	
Length of ears	+1 8.92	Long										Short	178-	
		9.67				8.96						8.25	181	
Diameter of ears	+1 2.137	Small										Large	182-	
		2.012				2.137						2.304	185	
No. of rows of kernels	+1 18.0	Small										Large	186-	
		14.9				18.3						20.9	189	
Color of shank index	+1 73.3	White										Dark	190-	
		86.7				67.7						36.7	193	
Condition of shank index	+7 51.7	Smooth										Rough	194-	
		58.3				38.4						18.3	197	
Variation index	-1 7.0	Uniform										Uneven	198-	
		3.0				7.0						11.0	201	
Total +10													202-	
★ A relationship of each descriptive item to yield and to all other items													205	

Sample No. 61-26, entered by

A.W. ARMSTRONG

Selected and grown 10 years by Mr. Armstrong.
His seed was obtained from the Funk Brothers Seed Company.

62

DESCRIPTIVE DATA FOR SAMPLE NUMBER 62-28

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		

Items that required field or laboratory tests

VOL. II

Bushels per acre	71.6	High					Median						Low	122-125
		78.1					71.7						61.0	
Percent of good corn	89.4	High											Low	126-129
		92.7					89.8						85.8	
Percent of moisture	22.6	Low											High	130-133
		17.9					21.4						24.9	
Percent of shelled corn	86.2	High											Low	134-137
		87.3					85.8						84.5	
Density of shelled corn	33.8	Heavy											Light	138-141
		35.6					34.2						32.4	
Germination index	84.5	High											Low	142-145
		93.8					87.1						64.5	
Disease index	84.1	Little											Much	146-149
		90.2					75.7						58.3	
Weight of ears	13.05	Heavy											Light	150-153
		15.07					12.75						10.35	

Yield test score

Items observed by oldtime corn judges

Density of ears	-1	39.67	Heavy				Median						Light	154-157
		42.03					39.54						37.58	
Kernel development	+1	55.7	Good										Poor	158-161
		78.6					56.4						38.3	
Indentation index	-1	61.7	Smooth										Rough	162-165
		16.5					44.7						87.3	
Length of kernels	+3	14.12	Long										Short	166-169
		15.72					13.41						12.47	
Width of kernels	+1	7.89	Wide										Narrow	170-173
		9.01					7.92						7.12	
Thickness of kernels	+1	4.30	Thick										Thin	174-177
		4.42					4.21						3.89	
Length of ears	+1	8.92	Long										Short	178-181
		9.67					8.96						8.25	
Diameter of ears	+1	2.167	Small										Large	182-185
		2.012					2.137						2.304	
No. of rows of kernels	+1	18.4	Small										Large	186-189
		14.9					18.3						20.9	
Color of shank index	+1	70.0	White										Dark	190-193
		86.7					67.7						36.7	
Condition of shank index	+1	40.0	Smooth										Rough	194-197
		58.3					38.4						18.3	
Variation index	-1	7.0	Uniform										Uneven	198-201
		3.0					7.0						11.0	

Total +8

★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.

202-205

Sample No. 62-28, entered by

R. H. SWITZER

Selected and grown only two years by Mr. Switzer.
The seed was obtained from both Yordy Brothers and Jacob Rasse.

Mr. Switzer's corn was selected in 1923 as one of ten samples typical of the oldtime Show Type Corn.

Page 207.

63

DESCRIPTIVE DATA FOR SAMPLE NUMBER 63-85

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		

Items that required field or laboratory tests

Vol. II

Bushels per acre	71.5	High					Median						Low	122-125
		78.1					71.7						61.0	
Percent of good corn	90.2	High											Low	126-129
		92.7					89.8						85.8	
Percent of moisture	20.4	Low											High	130-133
		17.9					21.4						24.9	
Percent of shelled corn	85.6	High											Low	134-137
		87.3					85.8						84.5	
Density of shelled corn	32.9	Heavy											Light	138-141
		35.6					34.2						32.4	
Germination index	92.7	High											Low	142-145
		93.8					87.1						64.5	
Disease index	58.3	Little											Much	146-149
		90.2					75.7						58.3	
Weight of ears	13.35	Heavy											Light	150-153
		15.07					12.75						10.35	

Yield test score

Items observed by oldtime corn judges

Density of ears	-3	38.63	Heavy				Median						Light	154-157
			42.03				39.54						37.58	
Kernel development	+1	54.5	Good										Poor	158-161
			78.6				56.4						38.3	
Indentation index	-7	76.7	Smooth										Rough	162-165
			16.5				44.7						87.3	
Length of kernels	-5	14.26	Long										Short	166-169
			15.72				13.41						12.47	
Width of kernels	-5	7.47	Wide										Narrow	170-173
			9.01				7.92						7.12	
Thickness of kernels	-5	3.98	Thick										Thin	174-177
			4.42				4.21						3.89	
Length of ears	-3	8.29	Long										Short	178-181
			9.67				8.96						8.25	
Diameter of ears	-3	2.304	Small										Large	182-185
			2.012				2.137						2.304	
No. of rows of kernels	-5	20.9	Small										Large	186-189
			14.9				18.3						20.9	
Color of shank index	+1	71.7	White										Dark	190-193
			86.7				67.7						36.7	
Condition of shank index	+1	40.0	Smooth										Rough	194-197
			58.3				38.4						18.3	
Variation index	-1	8.0	Uniform										Uneven	198-201
			3.0				7.0						11.0	

* A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.

Sample No. 63-85, entered by

CHARLES KNAPP

Selected and grown 22 years by Mr. Knapp.
The origin of his seed was not recorded.
Mr. Knapp's sample was the lowest yield-test-score of all 120 samples. Page 103.

63

85

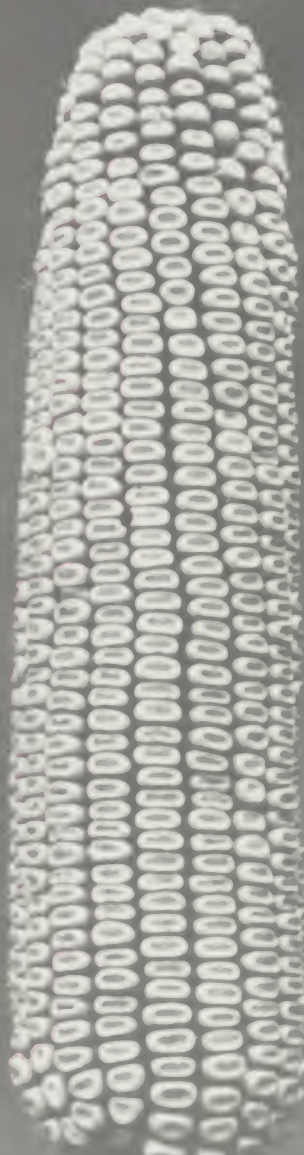
64

DESCRIPTIVE DATA FOR SAMPLE NUMBER 64-82

10 in.

9 in.

8 in.

64
82

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		
Items that required field or laboratory tests														
Bushels per acre	71.5	High					Median						Low	122-125
		78.1					71.7					61.0		
Percent of good corn	91.2	High	•										Low	126-129
		92.7					89.8					85.8		
Percent of moisture	21.9	Low						•					High	130-133
		17.9					21.4					24.9		
Percent of shelled corn	85.5	High								•			Low	134-137
		87.3					85.8					84.5		
Density of shelled corn	34.7	Heavy		•									Light	138-141
		35.6					34.2					32.4		
Germination index	87.9	High			•								Low	142-145
		93.8					87.1					64.5		
Disease index	72.1	Little								•			Much	146-149
		90.2					75.7					58.3		
Weight of ears	12.97	Heavy				•							Light	150-153
		15.07					12.75					10.35		
Yield test score Items observed by oldtime corn judges														
Density of ears	-1 39.24	Heavy					Median		•				Light	154-157
		42.03					39.54					37.58		
Kernel development	+1 59.1	Good			•								Poor	158-161
		78.6					56.4					38.3		
Indentation index	-1 44.7	Smooth											Rough	162-165
		16.5					44.7					87.3		
Length of kernels	+1 13.21	Long							•				Short	166-169
		15.72					13.41					12.47		
Width of kernels	-1 7.69	Wide											Narrow	170-173
		9.01					7.92			•		7.12		
Thickness of kernels	+1 4.25	Thick			•								Thin	174-177
		4.42					4.21					3.89		
Length of ears	+1 8.96	Long							•				Short	178-181
		9.67					8.96					8.25		
Diameter of ears	+1 2.167	Small								•			Large	182-185
		2.012					2.137					2.304		
No. of rows of kernels	-3 19.2	Small											Large	186-189
		14.9					18.3				•	20.9		
Color of shank index	-1 51.7	White											Dark	190-193
		86.7					67.7					36.7		
Condition of shank index	-1 20.0	Smooth											Rough	194-197
		58.3					38.4					18.3		
Variation index	-1 8.0	Uniform										•	Uneven	198-201
		3.0					7.0					11.0		
Total -4														
A relationship of each descriptive item to yield and to all other items is shown on the pages indicated														
202-205														

Sample No. 64-82, entered by

KAMP BROTHERS

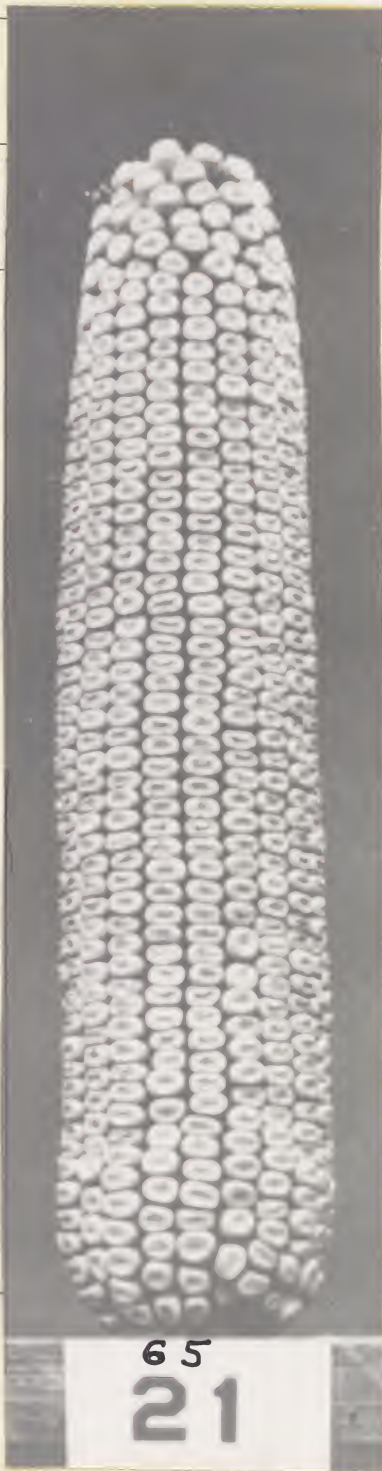
Selected 12 years by the Kamp Brothers.
 Their corn was developed from several local corns.

DESCRIPTIVE DATA FOR SAMPLE NUMBER 65-21

10 in.

9 in.

8 in.



Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														VOL. 71
Bushels per acre	71.4	High					Median						Low	122-125
		78.1				71.7						61.0		
Percent of good corn	89.3	High											Low	126-129
		92.7				89.8						85.8		
Percent of moisture	21.5	Low											High	130-133
		17.9				21.4						24.9		
Percent of shelled corn	85.6	High											Low	134-137
		87.3				85.8						84.5		
Density of shelled corn	34.1	Heavy											Light	138-141
		35.6				34.2						32.4		
Germination index	88.3	High											Low	142-145
		93.8				87.1						64.5		
Disease index	82.6	Little											Much	146-149
		90.2				75.7						58.3		
Weight of ears	12.55	Heavy											Light	150-153
		15.07				12.75						10.35		
Yield test score Items observed by oldtime corn judges														
Density of ears	-1 39.29	Heavy					Median						Light	154-157
		42.03				39.54						37.58		
Kernel development	+1 60.5	Good											Poor	158-161
		78.6				56.4						38.3		
Indentation index	-1 51.7	Smooth											Rough	162-165
		16.5				44.7						87.3		
Length of kernels	+1 13.32	Long											Short	166-169
		15.72				13.41						12.47		
Width of kernels	-1 7.79	Wide											Narrow	170-173
		9.01				7.92						7.12		
Thickness of kernels	-5 4.02	Thick											Thin	174-177
		4.42				4.21						3.89		
Length of ears	+1 9.08	Long											Short	178-181
		9.67				8.96						8.25		
Diameter of ears	+1 2.117	Small											Large	182-185
		2.012				2.137						2.304		
No. of rows of kernels	-1 18.7	Small											Large	186-189
		14.9				18.3						20.9		
Color of shank index	-1 73.3	White											Dark	190-193
		86.7				67.7						36.7		
Condition of shank index	+7 51.7	Smooth											Rough	194-197
		58.3				38.4						18.3		
Variation index	-1 8.0	Uniform											Uneven	198-201
		3.0				7.0						11.0		
Total ± 0														202-205
★ A relationship of each descriptive item to yield and to all other items														

Sample No. 65-21, entered by

P. L. SHEPHERD

Selected and grown 7 years by Mr. Shepherd.
His seed was obtained from T. E. Trunnell of Hudson,
Illinois.

66

DESCRIPTIVE DATA FOR SAMPLE NUMBER 66-56

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														VOL II
Bushels per acre	71.3	High 78.1				Median 71.7						Low 61.0	122-125	
Percent of good corn	90.0	High 92.7				89.8						Low 85.8	126-129	
Percent of moisture	22.0	Low 17.9				21.4						High 24.9	130-133	
Percent of shelled corn	85.9	High 87.3				85.8						Low 84.5	134-137	
Density of shelled corn	34.7	Heavy 35.6				34.2						Light 32.4	138-141	
Germination index	78.8	High 93.8				87.1						Low 64.5	142-145	
Disease index	63.6	Little 90.2				75.7						Much 58.3	146-149	
Weight of ears	12.97	Heavy 15.07				12.75						Light 10.35	150-153	
Yield test per acre Items observed by oldtime corn judges														
Density of ears +3	41.70	Heavy 42.03				Median 39.54						Light 37.58	154-157	
Kernel development +1	56.0	Good 78.6				56.4						Poor 38.3	158-161	
Indentation index -1	52.5	Smooth 16.5				44.7						Rough 87.3	162-165	
Length of kernels +1	13.53	Long 15.72				13.41						Short 12.47	166-169	
Width of kernels +1	7.93	Wide 9.01				7.92						Narrow 7.12	170-173	
Thickness of kernels +1	4.16	Thick 4.42				4.21						Thin 3.89	174-177	
Length of ears +1	8.67	Long 9.67				8.96						Short 8.25	178-181	
Diameter of ears +1	2.137	Small 2.012				2.137						Large 2.304	182-185	
No. of rows of kernels -3	19.1	Small 14.9				18.3						Large 20.9	186-189	
Color of shank index -1	76.7	White 86.7				67.7						Dark 36.7	190-193	
Condition of shank index -1	33.3	Smooth 58.3				38.4						Rough 18.3	194-197	
Variation index -1	7.0	Uniform 3.0				7.0						Uneven 11.0	198-201	
Total +2														202-205
★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														

66
56

Sample No. 66-56, entered by

J. H. ROTH of Panama, Illinois.

Selected and grown 5 years by Mr. Roth.
His seed was obtained from T. E. Orth.

67

DESCRIPTIVE DATA FOR SAMPLE NUMBER 67-36

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		
Items that required field or laboratory tests													VOL. II	
Bushels per acre	71.3	High 78.1				Median 71.7						Low 61.0	122-125	
Percent of good corn	91.6	High 92.7				89.8						Low 85.8	126-129	
Percent of moisture	20.2	Low 17.9				21.4						High 24.9	130-133	
Percent of shelled corn	85.4	High 87.3				85.8						Low 84.5	134-137	
Density of shelled corn	34.4	Heavy 35.6				34.2						Light 32.4	138-141	
Germination index	92.4	High 93.8				87.1						Low 64.5	142-145	
Disease index	79.5	Little 90.2				75.7						Much 58.3	146-149	
Weight of ears	118.2	Heavy 15.07				12.75						Light 10.35	150-153	
Yield test poor Items observed by oldtime corn judges														
Density of ears	+5 39.84	Heavy 42.03				Median 39.54						Light 37.58	154-157	
Kernel development	+1 53.1	Good 78.6				56.4						Poor 38.3	158-161	
Indentation index	+3 38.0	Smooth 16.5				44.7						Rough 87.3	162-165	
Length of kernels	-1 13.18	Long 15.72				13.41						Short 12.47	166-169	
Width of kernels	+1 7.98	Wide 9.01				7.92						Narrow 7.12	170-173	
Thickness of kernels	+1 4.17	Thick 4.42				4.21						Thin 3.89	174-177	
Length of ears	-3 8.50	Long 9.67				8.96						Short 8.25	178-181	
Diameter of ears	+1 2.108	Small 2.012				2.137						Large 2.304	182-185	
No. of rows of kernels	+1 17.5	Small 14.9				18.3						Large 20.9	186-189	
Color of shank index	-1 76.2	White 86.7				67.7						Dark 36.7	190-193	
Condition of shank index	+3 46.7	Smooth 58.3				38.4						Rough 18.3	194-197	
Variation index	-1 8.0	Uniform 3.0				7.0						Uneven 11.0	198-201	
Total +10													202-	
* A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.													205	

67
36

Sample No. 67-36 entered by

UDO CREMER

Selected and grown four years by Mr. Cremer.
His seed was obtained from John Meyer, Flenagan, Illinois.

68

DESCRIPTIVE DATA FOR SAMPLE NUMBER 68-98

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Decil group										Poorest or least favored	See page	
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														
Bushels per acre	71.3	High 78.1				Median 71.7						Low 61.0	122- 125	
Percent of good corn	90.4	High 92.7				89.8						Low 85.8	126- 129	
Percent of moisture	21.5	Low 17.9				21.4						High 24.9	130- 133	
Percent of shelled corn	85.9	High 87.3				85.8						Low 84.5	134- 137	
Density of shelled corn	34.5	Heavy 35.6				34.2						Light 32.4	138- 141	
Germination index	89.7	High 93.8				87.1						Low 64.5	142- 145	
Disease index	78.9	Little 90.2				75.7						Much 58.3	146- 149	
Weight of ears	12.72	Heavy 15.07				12.75						Light 10.35	150- 153	
field test score Items observed by oldtime corn judges														
Density of ears +3	40.68	Heavy 42.03				Median 39.54						Light 37.58	154- 157	
Kernel development +1	56.4	Good 78.6				56.4						Poor 38.3	158- 161	
Indentation index +1	40.0	Smooth 16.5				44.7						Rough 87.3	162- 165	
Length of kernels +1	13.65	Long 15.72				13.41						Short 12.47	166- 169	
Width of kernels +1	7.89	Wide 9.01				7.92						Narrow 7.12	170- 173	
Thickness of kernels +1	4.26	Thick 4.42				4.21						Thin 3.89	174- 177	
Length of ears +1	8.75	Long 9.67				8.96						Short 8.25	178- 181	
Diameter of ears +1	2.133	Small 2.012				2.137						Large 2.304	182- 185	
No. of rows of kernels -3	19.1	Small 14.9				18.3						Large 20.9	186- 189	
Color of shank index -1	60.0	White 86.7				67.7						Dark 36.7	190- 193	
Condition of shank index -1	25.0	Smooth 58.3				38.4						Rough 18.3	194- 197	
Variation index -1	8.0	Uniform 3.0				7.0						Uneven 11.0	198- 201	
Total +4														
★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														
202- 205														

Vol. II

Sample No. 68-98, entered by

GEORGE I. SOMMERS

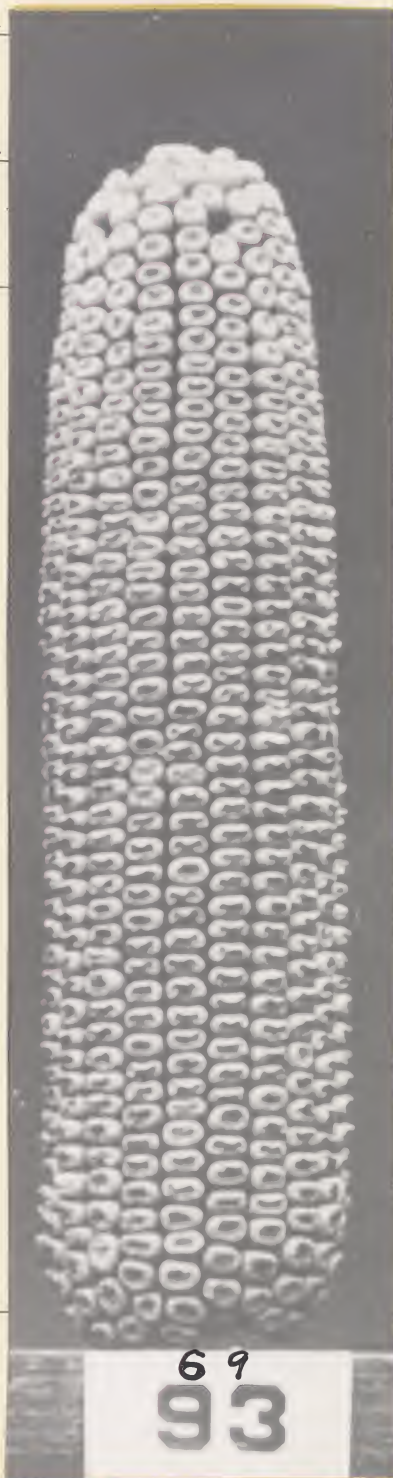
Selected and grown nine years by Mr. Sommers.
His seed was obtained from Wm. B. Otwell.

DESCRIPTIVE DATA FOR SAMPLE NUMBER 69-93

10 in.

9 in.

8 in.



Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page	
		1	2	3	4	5	6	7	8	9	10				
Items that required field or laboratory tests															VOL. II
Bushels per acre	71.3	High 78.1					Median 71.7						Low 61.0	122-125	
Percent of good corn	87.9	High 92.7					89.8						Low 85.8	126-129	
Percent of moisture	22.4	Low 17.9					21.4						High 24.9	130-133	
Percent of shelled corn	87.1	High 87.3					85.8						Low 84.5	134-137	
Density of shelled corn	33.2	Heavy 35.6					34.2						Light 32.4	138-141	
Germination index	89.7	High 93.8					87.1						Low 64.5	142-145	
Disease index	72.5	Little 90.2					75.7						Much 58.3	146-149	
Weight of ears	13.88	Heavy 15.07					12.75						Light 10.35	150-153	
Yield Test score Items observed by oldtime corn judges															
Density of ears	-1 39.22	Heavy 42.03					Median 39.54						Light 37.58	154-157	
Kernel development	-3 49.8	Good 78.6					56.4						Poor 38.3	158-161	
Indentation index	-7 78.2	Smooth 16.5					44.7						Rough 87.3	162-165	
Length of kernels	-5 14.87	Long 15.72					13.41						Short 12.47	166-169	
Width of kernels	+1 7.99	Wide 9.01					7.92						Narrow 7.12	170-173	
Thickness of kernels	+1 4.29	Thick 4.42					4.21						Thin 3.89	174-177	
Length of ears	-1 9.21	Long 9.67					8.96						Short 8.25	178-181	
Diameter of ears	-3 2.212	Small 2.012					2.137						Large 2.304	182-185	
No. of rows of kernels	-1 18.9	Small 14.9					18.3						Large 20.9	186-189	
Color of shank index	-1 61.7	White 86.7					67.7						Dark 36.7	190-193	
Condition of shank index	-1 38.3	Smooth 58.3					38.4						Rough 18.3	194-197	
Variation index	-1 7.0	Uniform 3.0					7.0						Uneven 11.0	198-201	
Total - 22															202-205
★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.															

Sample No. 69-93, entered by

EIMER HAHN

Selected and grown 10 years by Mr. Hahn.
 His seed was developed from a mixture of Leaming
 and Reids Yellow Dent.
 Mr. Hahn's corn had won sweepstakes prizes in the
 oldtime Corn Shows. Page 177, 206.
 This corn was also one of the ten low yield-test-score
 samples. Page 175, 202.

See also pages 210 and 251.

70

DESCRIPTIVE DATA FOR SAMPLE NUMBER 70-69

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Decil group										Poorest or least favored	ee page
		1	2	3	4	5	6	7	8	9	10		

Items that required field or laboratory tests														VOL. I
Bushels per acre	71.2	High 78.1				Median 71.7						Low 61.0	122-125	
Percent of good corn	88.7	High 92.7				89.8						Low 85.8	126-129	
Percent of moisture	19.7	Low 17.9				21.4						High 24.9	130-133	
Percent of shelled corn	85.6	High 87.3				85.8						Low 84.5	134-137	
Density of shelled corn	34.4	Heavy 35.6				34.2						Light 32.4	138-141	
Germination index	93.6	High 93.8				87.1						Low 64.5	142-145	
Disease index	78.6	Little 90.2				75.7						Much 58.3	146-149	
Weight of ears	11.93	Heavy 15.07				12.75						Light 10.35	150-153	

Yield
Test
score

Items observed by oldtime corn judges													
Density of ears	+3 40.65	Heavy 42.03				Median 39.54						Light 37.58	154-157
Kernel development	+1 55.5	Good 78.6				56.4						Poor 38.3	158-161
Indentation index	+3 38.5	Smooth 16.5				44.7						Rough 87.3	162-165
Length of kernels	-1 13.01	Long 15.72				13.41						Short 12.47	166-169
Width of kernels	+1 7.96	Wide 9.01				7.92						Narrow 7.12	170-173
Thickness of kernels	+1 4.29	Thick 4.42				4.21						Thin 3.89	174-177
Length of ears	+1 8.79	Long 9.67				8.96						Short 8.25	178-181
Diameter of ears	+1 2.062	Small 2.012				2.137						Large 2.304	182-185
No. of rows of kernels	+1 18.1	Small 14.9				18.3						Large 20.9	186-189
Color of shank index	-1 60.0	White 86.7				67.7						Dark 36.7	190-193
Condition of shank index	-1 26.7	Smooth 58.3				38.4						Rough 18.3	194-197
Variation index	-1 8.0	Uniform 3.0				7.0						Uneven 11.0	198-201

Total + 8

A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.													
202-205													

VOL. II

Yield
Test
Score

Items observed by oldtime corn judges

70

69

Sample No. 70-69, entered by

J.W. OSTLER

Selected and grown 10 years by Mr. Ostler.
His seed was obtained from Wm Gibbs, a neighbor.

71

DESCRIPTIVE DATA FOR SAMPLE NUMBER 71-49

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														VOL. I
Bushels per acre	71.1	High 78.1				Median 71.7						Low 61.0	122-125	
Percent of good corn	89.5	High 92.7				89.8						Low 85.8	126-129	
Percent of moisture	20.6	Low 17.9				21.4						High 24.9	130-133	
Percent of shelled corn	85.2	High 87.3				85.8						Low 84.5	134-137	
Density of shelled corn	34.7	Heavy 35.6				34.2						Light 32.4	138-141	
Germination index	86.3	High 93.8				87.1						Low 64.5	142-145	
Disease index	80.6	Little 90.2				75.7						Much 58.3	146-149	
Weight of ears	12.60	Heavy 15.07				12.75						Light 10.35	150-153	
Yield test score Items observed by oldtime corn judges														
Density of ears	+5 39.96	Heavy 42.03				Median 39.54						Light 37.58	154-157	
Kernel development	+1 63.1	Good 78.6				56.4						Poor 38.3	158-161	
Indentation index	-1 19.0	Smooth 16.5				44.7						Rough 87.3	162-165	
Length of kernels	-5 12.77	Long 15.72				13.41						Short 12.47	166-169	
Width of kernels	-3 7.64	Wide 9.01				7.92						Narrow 7.12	170-173	
Thickness of kernels	+1 4.42	Thick 4.42				4.21						Thin 3.89	174-177	
Length of ears	+1 9.00	Long 9.67				8.96						Short 8.25	178-181	
Diameter of ears	+1 2.112	Small 2.012				2.137						Large 2.304	182-185	
No. of rows of kernels	-3 19.3	Small 14.9				18.3						Large 20.9	186-189	
Color of shank index	+1 70.0	White 86.7				67.7						Dark 36.7	190-193	
Condition of shank index	-1 31.7	Smooth 58.3				38.4						Rough 18.3	194-197	
Variation index	-1 8.0	Uniform 3.0				7.0						Uneven 11.0	198-201	
Total -4 ★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														202-205

Sample No. 71-49, entered by

JOSEPH FOERTER

Selected and grown only one year by Mr. Foerter.
Developed from a mixture of several local corns.

71
49

72

DESCRIPTIVE DATA FOR SAMPLE NUMBER 72-107

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		

Items that required field or laboratory tests

VOL. II

Bushels per acre	71.1	High 78.1						Median 71.7					Low 61.0	122-125
Percent of good corn	89.3	High 92.7						89.8					Low 85.8	126-129
Percent of moisture	21.1	Low 17.9						21.4					High 24.9	130-133
Percent of shelled corn	86.0	High 87.3						85.8					Low 84.5	134-137
Density of shelled corn	34.3	Heavy 35.6						34.2					Light 32.4	138-141
Germination index	87.1	High 93.8						87.1					Low 64.5	142-145
Disease index	76.1	Little 90.2						75.7					Much 58.3	146-149
Weight of ears	12.57	Heavy 15.07						12.75					Light 10.35	150-153

Yield test score

Items observed by oldtime corn judges

Density of ears	-5 38.21	Heavy 42.03						Median 39.54					Light 37.58	154-157
Kernel development	+1 57.2	Good 78.6						56.4					Poor 38.3	158-161
Indentation index	+3 33.0	Smooth 16.5						44.7					Rough 87.3	162-165
Length of kernels	-1 12.98	Long 15.72						13.41					Short 12.47	166-169
Width of kernels	+1 7.96	Wide 9.01						7.92					Narrow 7.12	170-173
Thickness of kernels	+1 4.23	Thick 4.42						4.21					Thin 3.89	174-177
Length of ears	+1 8.79	Long 9.67						8.96					Short 8.25	178-181
Diameter of ears	-1 2.183	Small 2.012						2.137					Large 2.304	182-185
No. of rows of kernels	-1 18.7	Small 14.9						18.3					Large 20.9	186-189
Color of shank index	+1 71.7	White 86.7						67.7					Dark 36.7	190-193
Condition of shank index	-1 25.0	Smooth 58.3						38.4					Rough 18.3	194-197
Variation index	-1 8.0	Uniform 3.0						7.0					Uneven 11.0	198-201

★ Total -2
A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.

202-205

Sample No. 72-107, entered by

GEORGE M. STICKELMAIER

Selected and grown five years by Mr. Stickelmaier.
His seed was obtained from A.C. Scheirer whose sample was entered in the test as No. 51-95.

72

107

DESCRIPTIVE DATA FOR SAMPLE NUMBER 73-118

10 in.

9 in.

8 in.



73

118

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														Vol. II
Bushels per acre	70.9	High				Median						Low	122-125	
		78.1				71.7						61.0		
Percent of good corn	89.7	High										Low	126-129	
		92.7				89.8						85.8		
Percent of moisture	18.7	Low										High	130-133	
		17.9				21.4						24.9		
Percent of shelled corn	86.3	High										Low	134-137	
		87.3				85.8						84.5		
Density of shelled corn	33.2	Heavy										Light	138-141	
		35.6				34.2						32.4		
Germination index	84.7	High										Low	142-145	
		93.8				87.1						64.5		
Disease index	76.2	Little										Much	146-149	
		90.2				75.7						58.3		
Weight of ears	10.93	Heavy										Light	150-153	
		15.07				12.75						10.35		
Yield test score														
Items observed by oldtime corn judges														
Density of ears	-1 38.95	Heavy				Median						Light	154-157	
		42.03				39.54						37.58		
Kernel development	-3 50.0	Good										Poor	158-161	
		78.6				56.4						38.3		
Indentation index	-7 70.2	Smooth										Rough	162-165	
		16.5				44.7						87.3		
Length of kernels	+3 13.89	Long										Short	166-169	
		15.72				13.41						12.47		
Width of kernels	+1 8.13	Wide										Narrow	170-173	
		9.01				7.92						7.12		
Thickness of kernels	+1 4.05	Thick										Thin	174-177	
		4.42				4.21						3.89		
Length of ears	-3 8.50	Long										Short	178-181	
		9.67				8.96						8.25		
Diameter of ears	+1 2.050	Small										Large	182-185	
		2.012				2.137						2.304		
No. of rows of kernels	+1 16.7	Small										Large	186-189	
		14.9				18.3						20.9		
Color of shank index	+1 71.7	White										Dark	190-193	
		86.7				67.7						36.7		
Condition of shank index	-1 33.3	Smooth										Rough	194-197	
		58.3				38.4						18.3		
Variation index	+1 6.0	Uniform										Uneven	198-201	
		3.0				7.0						11.0		
Total - 6														202-205
★ A relationship of each descriptive item to yield and to all other items														

Sample No. 73-118, entered by

MOSCHEL and LAIBLE

Years selected and grown by Moschel and Laible was not recorded.

This corn was developed from Griffiths' 90 Day.

The Griffith Seed Company was active in northern Illinois.

This was one of the earliest of the 120 samples in the test. Page 136 Also page 117.

74

DESCRIPTIVE DATA FOR SAMPLE NUMBER 74-105

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		

Items that required field or laboratory tests

Vol. II

Bushels per acre	70.8	High 78.1					Median 71.7						Low 61.0	122-125
Percent of good corn	89.8	High 92.7					89.8						Low 85.8	126-129
Percent of moisture	20.0	Low 17.9	•				21.4						High 24.9	130-133
Percent of shelled corn	86.3	High 87.3	•				85.8						Low 84.5	134-137
Density of shelled corn	34.2	Heavy 35.6					34.2						Light 32.4	138-141
Germination index	90.5	High 93.8		•			87.1						Low 64.5	142-145
Disease index	76.4	Little 90.2					75.7						Much 58.3	146-149
Weight of ears	11.98	Heavy 15.07					12.75				•		Light 10.35	150-153

Yield test score

Items observed by oldtime corn judges

Density of ears	+5 39.78	Heavy 42.03				•	Median 39.54						Light 37.58	154-157
Kernel development	+1 61.6	Good 78.6				•	56.4						Poor 38.3	158-161
Indentation index	-1 49.2	Smooth 16.5					44.7				•		Rough 87.3	162-165
Length of kernels	+1 13.48	Long 15.72					13.41						Short 12.47	166-169
Width of kernels	-3 7.59	Wide 9.01					7.92					•	Narrow 7.12	170-173
Thickness of kernels	+1 4.16	Thick 4.42					4.21				•		Thin 3.89	174-177
Length of ears	-3 8.37	Long 9.67					8.96						Short 8.25	178-181
Diameter of ears	+1 2.142	Small 2.012					2.137				•		Large 2.304	182-185
No. of rows of kernels	-5 19.7	Small 14.9					18.3					•	Large 20.9	186-189
Color of shank index	-1 75.0	White 86.7				•	67.7						Dark 36.7	190-193
Condition of shank index	-1 30.0	Smooth 58.3					38.4					•	Rough 18.3	194-197
Variation index	+1 6.0	Uniform 3.0		•			7.0						Uneven 11.0	198-201

Total -4

★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.

202-205

Sample No. 74-105, entered by

HENRY MEISMER

Selected and grown five years by Mr. Meismer.
His seed was obtained from George Meismer.74
105

DESCRIPTIVE DATA FOR SAMPLE NUMBER 75-23

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		
Items that required field or laboratory tests														VOL. <u>17</u>
Bushels per acre	70.8	High 78.1 High				Median 71.7		•					Low 61.0	122-125
Percent of good corn	88.8	92.7 Low				89.8					•		85.8 High	126-129
Percent of moisture	22.4	17.9 High				21.4					•		24.9 Low	130-133
Percent of shelled corn	85.2	87.3 Heavy				85.8					•		84.5 Light	134-137
Density of shelled corn	33.8	35.6 High				34.2				•			32.4 Low	138-141
Germination index	86.9	93.8 Little				87.1		•					64.5 Much	142-145
Disease index	80.0	90.2 Heavy		•		75.7							58.3 Light	146-149
Weight of ears	13.33	15.07		•		12.75							10.35	150-153
Yield test acres Items observed by oldtime corn judges														
Density of ears	-3 38.63	Heavy 42.03 Good				Median 39.54					•		Light 37.58	154-157
Kernel development	-3 50.2	78.6 Smooth				56.4					•		Poor 38.3	158-161
Indentation index	-1 46.0	16.5 Long				44.7							Rough 87.3	162-165
Length of kernels	+1 13.41	15.72 Wide				13.41							Short 12.47	166-169
Width of kernels	+1 8.00	9.01 Thick			•	7.92							Narrow 7.12	170-173
Thickness of kernels	+1 4.22	4.42 Long				4.21		•					Thin 3.89	174-177
Length of ears	-1 9.29	9.67 Small				8.96							Short 8.25	178-181
Diameter of ears	-1 2.175	2.012 Small				2.137					•		Large 2.304	182-185
No. of rows of kernels	+1 18.7	14.9 White				18.3							Large 20.9	186-189
Color of shank index	-1 75.0	86.7 Smooth		•		67.7							Dark 36.7	190-193
Condition of shank index	+1 43.3	58.3 Uniform			•	38.4							Rough 18.3	194-197
Variation index	-1 7.0	3.0				7.0		•					Uneven 11.0	198-201
Total -6 ★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														202-205

75
23

Sample No. 75-23, entered by

S.K. SUTTON

Selected and grown 8 years by Mr. Sutton.
His seed was obtained from J.T. Cleary, a neighbor.
See pages 210 and 211.

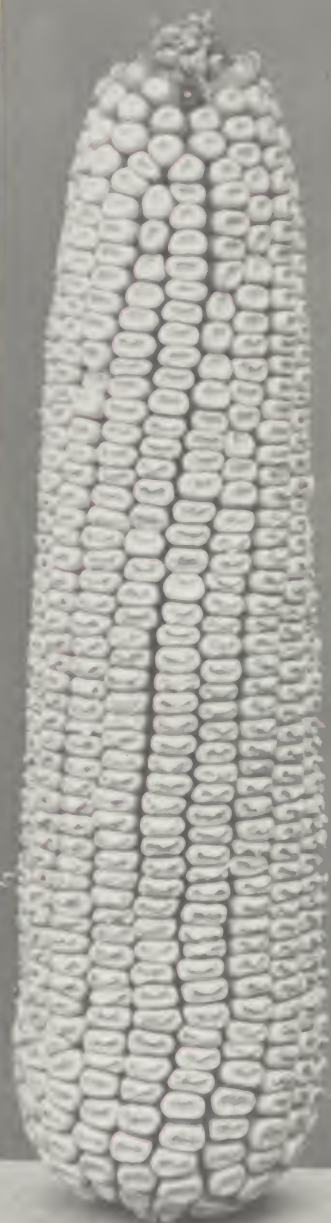
76

DESCRIPTIVE DATA FOR SAMPLE NUMBER 76-37

10 in.

9 in.

8 in.



76
37

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														
Bushels per acre	70.8	High 78.1					Median 71.7						Low 61.0	122-125
Percent of good corn	89.2	High 92.7					89.8						Low 85.8	126-129
Percent of moisture	23.2	Low 17.9					21.4						High 24.9	130-133
Percent of shelled corn	85.6	High 87.3					85.8						Low 84.5	134-137
Density of shelled corn	34.0	Heavy 35.6					34.2						Light 32.4	138-141
Germination index	80.9	High 93.8					87.1						Low 64.5	142-145
Disease index	64.8	Little 90.2					75.7						Much 58.3	146-149
Weight of ears	13.48	Heavy 15.07					12.75						Light 10.35	150-153
Yield test score Items observed by oldtime corn judges														
Density of ears -1	39.52	Heavy 42.03					Median 39.54						Light 37.58	154-157
Kernel development -3	50.4	Good 78.6					56.4						Poor 38.3	158-161
Indentation index -1	49.0	Smooth 16.5					44.7						Rough 87.3	162-165
Length of kernels +3	13.78	Long 15.72					13.41						Short 12.47	166-169
Width of kernels +1	8.56	Wide 9.01					7.92						Narrow 7.12	170-173
Thickness of kernels +1	4.24	Thick 4.42					4.21						Thin 3.89	174-177
Length of ears +1	9.08	Long 9.67					8.96						Short 8.25	178-181
Diameter of ears -1	2.187	Small 2.012					2.137						Large 2.304	182-185
No. of rows of kernels +1	17.7	Small 14.9					18.3						Large 20.9	186-189
Color of shank index +1	66.7	White 86.7					67.7						Dark 36.7	190-193
Condition of shank index +1	43.3	Smooth 58.3					38.4						Rough 18.3	194-197
Variation index -1	7.0	Uniform 3.0					7.0						Uneven 11.0	198-201
Total +2 A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														
202-205														

VOL. II

DESCRIPTIVE DATA FOR SAMPLE NUMBER 77-79

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														VOL. II
Bushels per acre	70.7	High					Median						Low	122-125
		78.1					71.7						61.0	
Percent of good corn	88.8	High											Low	126-129
		92.7					89.8						85.8	
Percent of moisture	20.5	Low											High	130-133
		17.9					21.4						24.9	
Percent of shelled corn	85.1	High											Low	134-137
		87.3					85.8						84.5	
Density of shelled corn	34.3	Heavy											Light	138-141
		35.6					34.2						32.4	
Germination index	87.4	High											Low	142-145
		93.8					87.1						64.5	
Disease index	75.2	Little											Much	146-149
		90.2					75.7						58.3	
Weight of ears	13.05	Heavy											Light	150-153
		15.07					12.75						10.35	

Yield test score
Items observed by oldtime corn judges

Density of ears	-3	38.71	Heavy				Median						Light	154-158
			42.03				39.54				•		37.58	
Kernel development	+1	54.1	Good						•				Poor	158-161
			78.6				56.4						38.3	
Indentation index	-1	50.2	Smooth								•		Rough	162-165
			16.5				44.7						87.3	
Length of kernels	+3	13.69	Long		•								Short	166-169
			15.72				13.41						12.47	
Width of kernels	+1	8.02	Wide										Narrow	170-173
			9.01			•	7.92						7.12	
Thickness of kernels	+1	4.16	Thick									•	Thin	174-177
			4.42				4.21						3.89	
Length of ears	+1	9.04	Long				•						Short	178-181
			9.67				8.96						8.25	
Diameter of ears	-1	2.179	Small								•		Large	182-185
			2.012				2.137						2.304	
No. of rows of kernels	-1	18.9	Small										Large	186-189
			14.9				18.3		•				20.9	
Color of shank index	-1	55.0	White										Dark	190-193
			86.7				67.7						36.7	
Condition of shank index	-1	30.0	Smooth									•	Rough	194-197
			58.3				38.4						18.3	
Variation index	-1	9.0	Uniform										Uneven	198-201
			3.0				7.0						11.0	

★ *Total - 2*
A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.

Sample No. 77-79, entered by

AUGUST KNAPP

Selected and grown 10 years by Mr. Knapp.
The origin of his seed was not recorded.

See pages 210 and 211.

77
79

DESCRIPTIVE DATA FOR SAMPLE NUMBER 78-78

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		
Items that required field or laboratory tests														VOL. II
Bushels per acre	70.6	High				Median						Low	122-	
		78.1				71.7					61.0	125		
Percent of good corn	89.8	High										Low	126-	
		92.7				89.8					85.8	129		
Percent of moisture	20.9	Low										High	130-	
		17.9				21.4					24.9	133		
Percent of shelled corn	86.1	High										Low	134-	
		87.3				85.8					84.5	137		
Density of shelled corn	34.4	Heavy										Light	138-	
		35.6				34.2					32.4	141		
Germination index	85.0	High										Low	142-	
		93.8				87.1					64.5	145		
Disease index	68.6	Little										Much	146-	
		90.2				75.7					58.3	149		
Weight of ears	12.00	Heavy										Light	150-	
		15.07				12.75					10.35	153		
Yield Test score Items observed by oldtime corn judges														
Density of ears	-1 39.36	Heavy				Median						Light	154-	
		42.03				39.54					37.58	157		
Kernel development	-3 50.7	Good										Poor	158-	
		78.6				56.4					38.3	161		
Indentation index	-1 49.7	Smooth										Rough	162-	
		16.5				44.7					87.3	165		
Length of kernels	+1 13.35	Long										Short	166-	
		15.72				13.41					12.47	169		
Width of kernels	+1 8.21	Wide										Narrow	170-	
		9.01				7.92					7.12	173		
Thickness of kernels	+1 4.22	Thick										Thin	174-	
		4.42				4.21					3.89	177		
Length of ears	+1 8.87	Long										Short	178-	
		9.67				8.96					8.25	181		
Diameter of ears	+1 2.092	Small										Large	182-	
		2.012				2.137					2.304	185		
No. of rows of kernels	+1 17.5	Small										Large	186-	
		14.9				18.3					20.9	189		
Color of shank index	-1 75.0	White										Dark	190-	
		86.7				67.7					36.7	193		
Condition of shank index	-1 35.0	Smooth										Rough	194-	
		58.3				38.4					18.3	197		
Variation index	-1 8.0	Uniform										Uneven	198-	
		3.0				7.0					11.0	201		
Total - 2 ★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														202-205

78

78

Sample No. 78-78, entered by

FRANK ERSKINE

Selected and grown four years by Mr. Erskine.
Seed was a mixture of seed obtained from G.B. Drake and from the Sutton Seed Company.

DESCRIPTIVE DATA FOR SAMPLE NUMBER 79-48

10 in.

9 in.

8 in.



Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														VOL. II
Bushels per acre	70.6	High					Median						Low	122-125
		78.1					71.7					61.0		
Percent of good corn	88.9	High											Low	126-129
		92.7					89.8					85.8		
Percent of moisture	21.1	Low											High	130-133
		17.9					21.4					24.9		
Percent of shelled corn	86.3	High											Low	134-137
		87.3					85.8					84.5		
Density of shelled corn	33.7	Heavy											Light	138-141
		35.6					34.2					32.4		
Germination index	88.8	High											Low	142-145
		93.8					87.1					64.5		
Disease index	75.5	Little											Much	146-149
		90.2					75.7					58.3		
Weight of ears	13.88	Heavy											Light	150-153
		15.07					12.75					10.35		
Yield test score Items observed by oldtime corn judges														
Density of ears	-1 39.21	Heavy					Median						Light	154-157
		42.03					39.54					37.58		
Kernel development	-7 49.5	Good											Poor	158-161
		78.6					56.4					38.3		
Indentation index	-1 63.2	Smooth											Rough	162-165
		16.5					44.7					87.3		
Length of kernels	-5 14.15	Long											Short	166-169
		15.72					13.41					12.47		
Width of kernels	+1 7.85	Wide											Narrow	170-173
		9.01					7.92					7.12		
Thickness of kernels	+1 4.30	Thick											Thin	174-177
		4.42					4.21					3.89		
Length of ears	-1 9.17	Long											Short	178-181
		9.67					8.96					8.25		
Diameter of ears	-3 2.217	Small											Large	182-185
		2.012					2.137					2.304		
No. of rows of kernels	-5 19.3	Small											Large	186-189
		14.9					18.3					20.9		
Color of shank index	-1 61.7	White											Dark	190-193
		86.7					67.7					36.7		
Condition of shank index	-1 35.0	Smooth											Rough	194-197
		58.3					38.4					18.3		
Variation index	+1 6.0	Uniform											Uneven	198-201
		3.0					7.0					11.0		
Total - 22														202-205
★ A relationship of each descriptive item to yield and to all other items														

★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.

Sample No. 79-48, entered by

BEN SCHERTZ

Selected and grown only one year by Mr. Schertz. His seed was obtained from P.E. Unzicker. Mr. Schertz's sample was one of the ten lowest "yield-test-score" samples. Page 175, 202.

80

DESCRIPTIVE DATA FOR SAMPLE NUMBER 80-34

10 in.

9 in.

8 in.

80
34

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														
Bushels per acre	70.6	High				Median						Low	122-125	
		78.1				71.7						61.0		
Percent of good corn	90.7	High	•			89.8						Low	126-129	
		92.7										85.8		
Percent of moisture	21.2	Low				21.4						High	130-133	
		17.9										24.9		
Percent of shelled corn	85.7	High				85.8						Low	134-137	
		87.3										84.5		
Density of shelled corn	34.0	Heavy				34.2						Light	138-141	
		35.6										32.4		
Germination index	89.8	High	•			87.1						Low	142-145	
		93.8										64.5		
Disease index	83.1	Little	•			75.7						Much	146-149	
		90.2										58.3		
Weight of ears	13.02	Heavy				12.75						Light	150-153	
		15.07										10.35		
Yield test score Items observed by oldtime corn judges														
Density of ears	+5 40.15	Heavy	•			Median						Light	154-157	
		42.03				39.54						37.58		
Kernel development	+1 60.0	Good		•		56.4						Poor	158-161	
		78.6										38.3		
Indentation index	+3 33.7	Smooth	•			44.7						Rough	162-165	
		16.5										87.3		
Length of kernels	-5 12.69	Long				13.41						Short	166-169	
		15.72										12.47		
Width of kernels	+1 8.07	Wide	•			7.92						Narrow	170-173	
		9.01										7.12		
Thickness of kernels	+1 4.26	Thick	•			4.21						Thin	174-177	
		4.42										3.89		
Length of ears	+1 8.71	Long				8.96				•		Short	178-181	
		9.67										8.25		
Diameter of ears	+1 2.092	Small	•			2.137						Large	182-185	
		2.012										2.304		
No. of rows of kernels	+1 17.9	Small		•		18.3						Large	186-189	
		14.9										20.9		
Color of shank index	-1 56.7	White				67.7					•	Dark	190-193	
		86.7										36.7		
Condition of shank index	-1 38.3	Smooth				38.4						Rough	194-197	
		58.3										18.3		
Variation index	-1 7.0	Uniform				7.0						Uneven	198-201	
		3.0										11.0		
Total +6														
★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														
202-205														

Vol. II

DESCRIPTIVE DATA FOR SAMPLE NUMBER 81-5

10 in.

9 in.

8 in.



Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														VOL. II
Bushels per acre	70.6	High				Median					Low	122-		
		78.1				71.7	•			61.0	125			
Percent of good corn	90.7	High	•								Low	126-		
		92.7				89.8				85.8	129			
Percent of moisture	22.8	Low							•		High	130-		
		17.9				21.4				24.9	133			
Percent of shelled corn	85.5	High						•			Low	134-		
		87.3				85.8				84.5	137			
Density of shelled corn	32.4	Heavy							•		Light	138-		
		35.6				34.2				32.4	141			
Germination index	85.0	High						•			Low	142-		
		93.8				87.1				64.5	145			
Disease index	76.3	Little				•					Much	146-		
		90.2				75.7				58.3	149			
Weight of ears	12.78	Heavy				•					Light	150-		
		15.07				12.75				10.35	153			
Yield test score Items observed by oldtime corn judges														
Density of ears	-1 39.22	Heavy				Median					Light	154-		
		42.03				39.54	•			37.58	157			
Kernel development	+1 55.7	Good					•				Poor	158-		
		78.6				56.4				38.3	161			
Indentation index	+1 41.5	Smooth									Rough	162-		
		16.5				44.7	•			87.3	165			
Length of kernels	+1 13.38	Long									Short	166-		
		15.72				13.41	•			12.47	169			
Width of kernels	+1 8.50	Wide	•								Narrow	170-		
		9.01				7.92				7.12	173			
Thickness of kernels	+1 4.17	Thick							•		Thin	174-		
		4.42				4.21				3.89	177			
Length of ears	-1 9.12	Long		•							Short	178-		
		9.67				8.96				8.25	181			
Diameter of ears	+1 2.133	Small									Large	182-		
		2.012				2.137	•			2.304	185			
No. of rows of kernels	+1 17.0	Small									Large	186-		
		14.9	•			18.3				20.9	189			
Color of shank index	-1 78.3	White									Dark	190-		
		86.7	•			67.7				36.7	193			
Condition of shank index	+3 50.0	Smooth									Rough	194-		
		58.3	•			38.4				18.3	197			
Variation index	+1 6.0	Uniform		•							Uneven	198-		
		3.0				7.0				11.0	201			
Total +2 ★ A relationship of each descriptive item to yield and to all other items														202-205

Sample No. 81-5, entered by

PETER HOUSEHOLTER

Selected and grown 30 years by Mr. Householdter.
His seed was obtained from Debold Householdter.

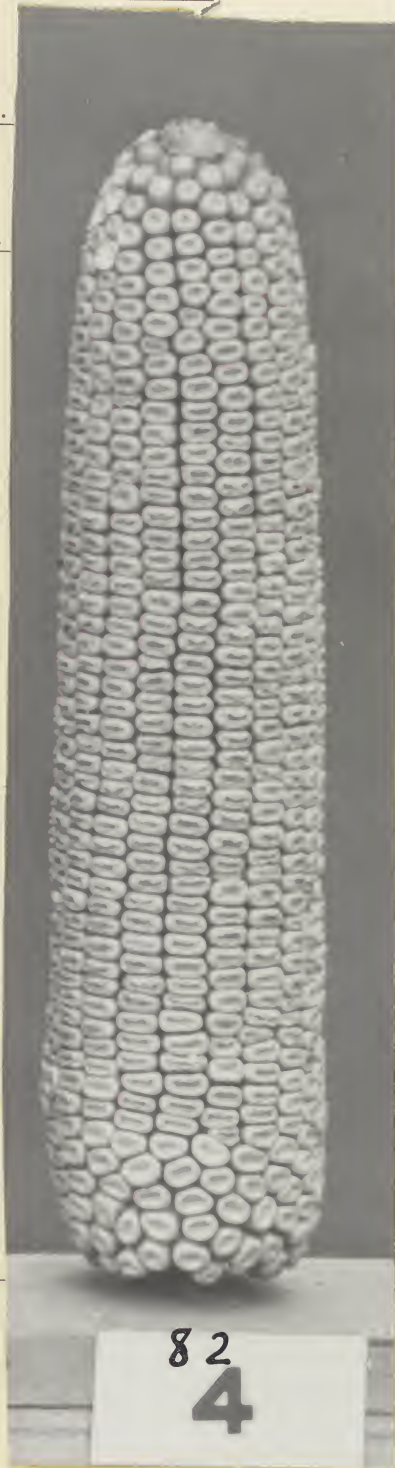
82

DESCRIPTIVE DATA FOR SAMPLE NUMBER 82-4

10 in.

9 in.

8 in.



Descriptive items	Value for this sample	Decil group										Poorest or least favored	See page	
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														Vbl. 11
Bushels per acre	70.6	High 78.1				Median 71.7						Low 61.0	122-125	
Percent of good corn	88.8	High 92.7				89.8						Low 85.8	126-129	
Percent of moisture	22.9	Low 17.9				21.4						High 24.9	130-133	
Percent of shelled corn	86.1	High 87.3				85.8						Low 84.5	134-137	
Density of shelled corn	33.4	Heavy 35.6				34.2						Light 32.4	138-141	
Germination index	87.2	High 93.8				87.1						Low 64.5	142-145	
Disease index	99.1	Little 90.2				75.7						Much 58.3	146-149	
Weight of ears	13.37	Heavy 15.07				12.75						Light 10.35	150-153	
Yield test score Items observed by oldtime corn judges														
Density of ears	+3 40.80	Heavy 42.03				Median 39.54						Light 37.58	154-157	
Kernel development	+1 62.9	Good 78.6				56.4						Poor 38.3	158-161	
Indentation index	-1 46.7	Smooth 16.5				44.7						Rough 87.3	162-165	
Length of kernels	+1 13.46	Long 15.72				13.41						Short 12.47	166-169	
Width of kernels	-3 7.59	Wide 9.01				7.92						Narrow 7.12	170-173	
Thickness of kernels	+1 4.16	Thick 4.42				4.21						Thin 3.89	174-177	
Length of ears	+1 8.96	Long 9.67				8.96						Short 8.25	178-181	
Diameter of ears	+1 2.158	Small 2.012				2.137						Large 2.304	182-185	
No. of rows of kernels	-5 19.6	Small 14.9				18.3						Large 20.9	186-189	
Color of shank index	+1 63.3	White 86.7				67.7						Dark 36.7	190-193	
Condition of shank index	+1 46.7	Smooth 58.3				38.4						Rough 18.3	194-197	
Variation index	-1 9.0	Uniform 3.0				7.0						Uneven 11.0	198-201	
Total 40														202-205
A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														

Sample No. 82-4, entered by

CARA GRESHAM

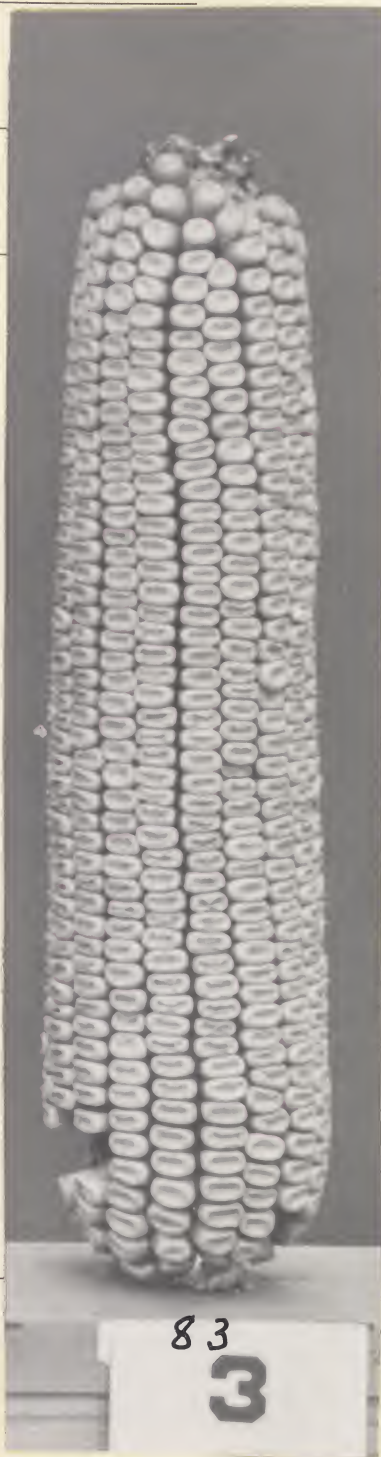
Selected and grown only one year by Mr. Gresham.
His seed was obtained from Ainsworth and Company of
Mason City, Illinois.

DESCRIPTIVE DATA FOR SAMPLE NUMBER 83-3

10 in.

9 in.

8 in.



83

3

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		
Items that required field or laboratory tests														
Bushels per acre	70.6	High 78.1				Median 71.7							Low 61.0	122-125
Percent of good corn	92.7	High 92.7				89.8							Low 85.8	126-129
Percent of moisture	23.8	Low 17.9				21.4							High 24.9	130-133
Percent of shelled corn	85.5	High 87.3				85.8							Low 84.5	134-137
Density of shelled corn	33.9	Heavy 35.6				34.2							Light 32.4	138-141
Germination index	92.5	High 93.8				87.1							Low 64.5	142-145
Disease index	85.7	Little 90.2				75.7							Much 58.3	146-149
Weight of ears	11.90	Heavy 15.07				12.75							Light 10.35	150-153
Yield test score Items observed by oldtime corn judges														
Density of ears	-1 39.75	Heavy 42.03				Median 39.54							Light 37.58	154-157
Kernel development	+1 56.4	Good 78.6				56.4							Poor 38.3	158-161
Indentation index	+1 39.7	Smooth 16.5				44.7							Rough 87.3	162-165
Length of kernels	-1 13.03	Long 15.72				13.41							Short 12.47	166-169
Width of kernels	-1 7.74	Wide 9.01				7.92							Narrow 7.12	170-173
Thickness of kernels	+1 4.25	Thick 4.42				4.21							Thin 3.89	174-177
Length of ears	+1 8.78	Long 9.67				8.96							Short 8.25	178-181
Diameter of ears	+1 2.087	Small 2.012				2.137							Large 2.304	182-185
No. of rows of kernels	+1 18.3	Small 14.9				18.3							Large 20.9	186-189
Color of shank index	+1 66.7	White 86.7				67.7							Dark 36.7	190-193
Condition of shank index	+1 40.1	Smooth 58.3				38.4							Rough 18.3	194-197
Variation index	-1 8.0	Uniform 3.0				7.0							Uneven 11.0	198-201
Total +4														
★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														
202-205														

Sample No. 83-3, entered by

J. H. ROTH, Elmhurst, Illinois

There was no record of the years selected and grown
or of the source of the seed for this sample.

See pages 210 and 211.

84

DESCRIPTIVE DATA FOR SAMPLE NUMBER 84-96

10 in.

9 in.

8 in.



Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		
Items that required field or laboratory tests														VOL II
Bushels per acre	70.5	High					Median						Low	122-125
		78.1						71.7					61.0	
Percent of good corn	89.7	High											Low	126-129
		92.7						89.8					85.8	
Percent of moisture	21.4	Low											High	130-133
		17.9						21.4					24.9	
Percent of shelled corn	85.9	High											Low	134-137
		87.3						85.8					84.5	
Density of shelled corn	33.3	Heavy											Light	138-141
		35.6						34.2					32.4	
Germination index	85.4	High											Low	142-145
		93.8						87.1					64.5	
Disease index	65.8	Little											Much	146-149
		90.2						75.7					58.3	
Weight of ears	13.40	Heavy											Light	150-153
		15.07						12.75					10.35	
Yield test score Items observed by oldtime corn judges														
Density of ears	-5 38.06	Heavy					Median						Light	154-157
		42.03						39.54					37.58	
Kernel development	-3 51.9	Good											Poor	158-161
		78.6						56.4					38.3	
Indentation index	-7 64.2	Smooth											Rough	162-165
		16.5						44.7					87.3	
Length of kernels	+3 13.95	Long											Short	166-169
		15.72						13.41					12.47	
Width of kernels	+1 8.07	Wide											Narrow	170-173
		9.01						7.92					7.12	
Thickness of kernels	+1 4.19	Thick											Thin	174-177
		4.42						4.21					3.89	
Length of ears	-1 9.12	Long											Short	178-181
		9.67						8.96					8.25	
Diameter of ears	-3 2.217	Small											Large	182-185
		2.012						2.137					2.304	
No. of rows of kernels	-3 19.1	Small											Large	186-189
		14.9						18.3					20.9	
Color of shank index	-1 76.7	White											Dark	190-193
		86.7						67.7					36.7	
Condition of shank index	-1 28.3	Smooth											Rough	194-197
		58.3						38.4					18.3	
Variation index	-1 7.0	Uniform											Uneven	198-201
		3.0						7.0					11.0	
Total -20														202-205
★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														

Sample No. 84-96, entered by

A.H. SCHERTZ

Selected and grown 12 years by Mr. Schertz.
His seed was obtained from the Sutton Seed Company
of Mason City, Illinois.

This is one of the 12 low scoring samples. See page 202.

DESCRIPTIVE DATA FOR SAMPLE NUMBER 85-11

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		
Items that required field or laboratory tests													VOL. II	
Bushels per acre	70.4	High					Median					Low	122-125	
		78.1					71.7					61.0		
Percent of good corn	91.1	High	•									Low	126-129	
		92.7					89.8					85.8		
Percent of moisture	21.8	Low							•			High	130-133	
		17.9					21.4					24.9		
Percent of shelled corn	86.4	High	•									Low	134-137	
		87.3					85.8					84.5		
Density of shelled corn	34.0	Heavy							•			Light	138-141	
		35.6					34.2					32.4		
Germination index	86.0	High							•			Low	142-145	
		93.8					87.1					64.5		
Disease index	85.2	Little	•									Much	146-149	
		90.2					75.7					58.3		
Weight of ears	12.30	Heavy								•		Light	150-153	
		15.07					12.75					10.35		
Yield test acre Items observed by oldtime corn judges														
Density of ears	-1 39.37	Heavy					Median					Light	154-157	
		42.03					39.54					37.58		
Kernel development	+1 57.8	Good						•				Poor	158-161	
		78.6					56.4					38.3		
Indentation index	+1 40.7	Smooth				•						Rough	162-165	
		16.5					44.7					87.3		
Length of kernels	+1 13.46	Long						•				Short	166-169	
		15.72					13.41					12.47		
Width of kernels	-1 7.71	Wide									•	Narrow	170-173	
		9.01					7.92					7.12		
Thickness of kernels	+1 4.22	Thick						•				Thin	174-177	
		4.42					4.21					3.89		
Length of ears	+1 8.71	Long									•	Short	178-181	
		9.67					8.96					8.25		
Diameter of ears	+1 2.137	Small							•			Large	182-185	
		2.012					2.137					2.304		
No. of rows of kernels	-5 19.9	Small										Large	186-189	
		14.9					18.3					20.9		
Color of shank index	+1 65.0	White								•		Dark	190-193	
		86.7					67.7					36.7		
Condition of shank index	+1 46.7	Smooth		•								Rough	194-197	
		58.3					38.4					18.3		
Variation index	-1 9.0	Uniform										Uneven	198-201	
		3.0					7.0					11.0		
Total ± 0. ★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.													202-205	

Sample No. 85-11, entered by

C.M. SMITH

Selected and grown nine years by Mr. Smith.
His seed was obtained from Wm B. Otwell, a neighbor.
The Woodford County Corn Yield Test was conducted on
Mr. Smith's farm during the years of 1920 and 1921.

DESCRIPTIVE DATA FOR SAMPLE NUMBER 86-113

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		

Items that required field or laboratory tests

Vol. I

Bushels per acre	70.4	High 78.1					Median 71.7						Low 61.0	122-125
Percent of good corn	88.5	High 92.7					89.8						Low 85.8	126-129
Percent of moisture	24.9	Low 17.9					21.4						High 24.9	130-133
Percent of shelled corn	85.1	High 87.3					85.8						Low 84.5	134-137
Density of shelled corn	33.5	Heavy 35.6					34.2						Light 32.4	138-141
Germination index	83.1	High 93.8					87.1						Low 64.5	142-145
Disease index	70.7	Little 90.2					75.7						Much 58.3	146-149
Weight of ears	14.40	Heavy 15.07					12.75						Light 10.35	150-153

Yield test
per acre

Items observed by oldtime corn judges

Density of ears	-3	38.75	Heavy 42.03				Median 39.54						Light 37.58	154-157
Kernel development	+1	60.3	Good 78.6				56.4						Poor 38.3	158-161
Indentation index	-1	47.2	Smooth 16.5				44.7						Rough 87.3	162-165
Length of kernels	+1	13.49	Long 15.72				13.41						Short 12.47	166-169
Width of kernels	+1	8.13	Wide 9.01				7.92						Narrow 7.12	170-173
Thickness of kernels	+1	4.37	Thick 4.42				4.21						Thin 3.89	174-177
Length of ears	-1	9.67	Long 9.67				8.96						Short 8.25	178-181
Diameter of ears	-3	2.212	Small 2.012				2.137						Large 2.304	182-185
No. of rows of kernels	+1	18.7	Small 14.9				18.3						Large 20.9	186-189
Color of shank index	+1	63.3	White 86.7				67.7						Dark 36.7	190-193
Condition of shank index	-1	36.7	Smooth 58.3				38.4						Rough 18.3	194-197
Variation index	-1	7.0	Uniform 3.0				7.0						Uneven 11.0	198-201

★ *Total -4*
A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.

Sample No. 86-113, entered by

J. FRANK FELTER

Selected and grown 8 years by Mr. Felter.
His seed was obtained from the Sutton Seed Company
of Mason City, Illinois.

This was one of ten samples selected in 1923 as most
typical of the Oldtime Show Type of corn. Page 177

209

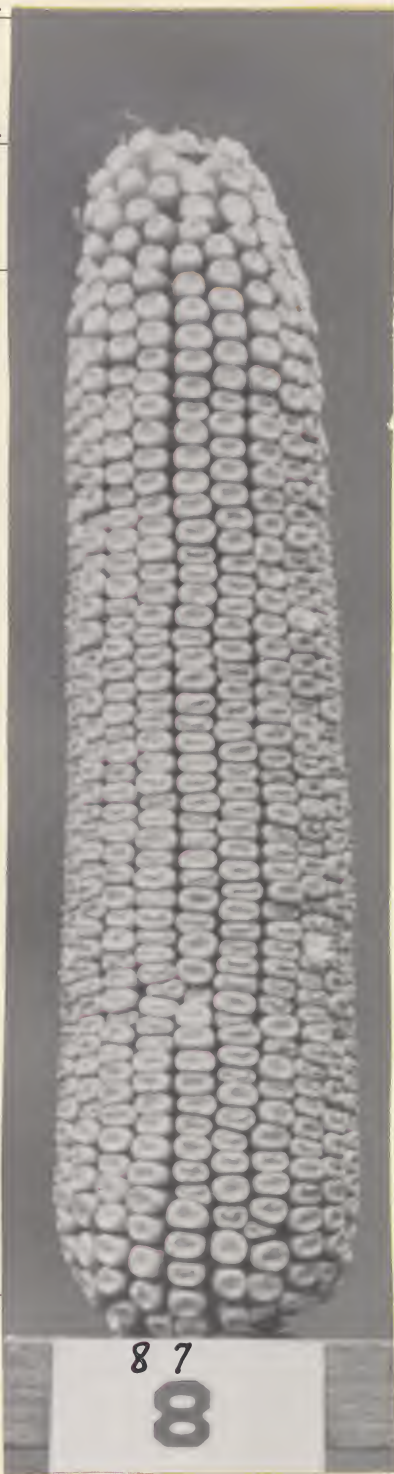
86
113

DESCRIPTIVE DATA FOR SAMPLE NUMBER 87-8

10 in.

9 in.

8 in.



Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		
Items that required field or laboratory tests														Vol. II
Bushels per acre	70.3	High				Median						Low	122-	
		78.1				71.7						61.0	125	
Percent of good corn	90.4	High										Low	126-	
		92.7				89.8						85.8	129	
Percent of moisture	22.0	Low										High	130-	
		17.9				21.4						24.9	133	
Percent of shelled corn	85.8	High										Low	134-	
		87.3				85.8						84.5	137	
Density of shelled corn	33.7	Heavy										Light	138-	
		35.6				34.2						32.4	141	
Germination index	85.9	High										Low	142-	
		93.8				87.1						64.5	145	
Disease index	80.9	Little										Much	146-	
		90.2				75.7						58.3	149	
Weight of ears	13.42	Heavy										Light	150-	
		15.07				12.75						10.35	153	
Yield test score Items observed by oldtime corn judges														
Density of ears	-1 38.85	Heavy				Median						Light	154-	
		42.03				39.54						37.58	158	
Kernel development	+1 59.7	Good										Poor	158-	
		78.6				56.4						38.3	161	
Indentation index	-1 47.7	Smooth										Rough	162-	
		16.5				44.7						87.3	165	
Length of kernels	+3 13.66	Long										Short	166-	
		15.72				13.41						12.47	169	
Width of kernels	-5 7.51	Wide										Narrow	170-	
		9.01				7.92						7.12	173	
Thickness of kernels	+1 4.21	Thick										Thin	174-	
		4.42				4.21						3.89	177	
Length of ears	-1 9.12	Long										Short	178-	
		9.67				8.96						8.25	181	
Diameter of ears	-3 2.196	Small										Large	182-	
		2.012				2.137						2.304	185	
No. of rows of kernels	-5 20.5	Small										Large	186-	
		14.9				18.3						20.9	189	
Color of shank index	-1 78.3	White										Dark	190-	
		86.7				67.7						36.7	193	
Condition of shank index	+1 38.4	Smooth										Rough	194-	
		58.3				38.4						18.3	197	
Variation index	-1 9.0	Uniform										Uneven	198-	
		3.0				7.0						11.0	201	
Total -12														202-
★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														205

★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.

Sample No. 87-8, entered by

KAUFMAN BROTHERS

Selected and grown 10 years by the Kaufman Brothers.
Their seed was developed from seed obtained from several different men.

See pages 210 and 211.

88

DESCRIPTIVE DATA FOR SAMPLE NUMBER 88-22

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		

Items that required field or laboratory tests

VOL. II

Bushels per acre	70.3	High 78.1					Median 71.7						Low 61.0	122-125
Percent of good corn	89.7	High 92.7					89.8						Low 85.8	126-129
Percent of moisture	22.2	Low 17.9					21.4						High 24.9	130-133
Percent of shelled corn	85.8	High 87.3					85.8						Low 84.5	134-137
Density of shelled corn	34.2	Heavy 35.6					34.2						Light 32.4	138-141
Germination index	89.1	High 93.8					87.1						Low 64.5	142-145
Disease index	81.2	Little 90.2					75.7						Much 58.3	146-149
Weight of ears	12.25	Heavy 15.07					12.75						Light 10.35	150-153

Yield
test
score

Items observed by oldtime corn judges

Density of ears	-1 39.59	Heavy 42.03					Median 39.54						Light 37.58	154-157
Kernel development	-7 48.5	Good 78.6					56.4						Poor 38.3	158-161
Indentation index	+3 38.5	Smooth 16.5					44.7						Rough 87.3	162-165
Length of kernels	-1 13.16	Long 15.72					13.41						Short 12.47	166-169
Width of kernels	+1 7.97	Wide 9.01					7.92						Narrow 7.12	170-173
Thickness of kernels	+1 4.21	Thick 4.42					4.21						Thin 3.89	174-177
Length of ears	+1 8.79	Long 9.67					8.96						Short 8.25	178-181
Diameter of ears	+1 2.117	Small 2.012					2.137						Large 2.304	182-185
No. of rows of kernels	+1 18.4	Small 14.9					18.3						Large 20.9	186-189
Color of shank index	-1 58.3	White 86.7					67.7						Dark 36.7	190-193
Condition of shank index	-1 36.7	Smooth 58.3					38.4						Rough 18.3	194-197
Variation index	-1 8.0	Uniform 3.0					7.0						Uneven 11.0	198-201

★ Total - 4
A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.

Sample No. 88-22, entered by

J. H. MERRICK

Selected and grown only one year by Mr. Merrick.
His seed was developed from a mixture of two local strains of corn.

88
22

89

DESCRIPTIVE DATA FOR SAMPLE NUMBER 89-39

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page	
			1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests															VOL. II
Bushels per acre	70.2	High					Median						Low	122-125	
		78.1					71.7					61.0			
Percent of good corn	90.5	High											Low	126-129	
		92.7					89.8					85.8			
Percent of moisture	19.0	Low											High	130-133	
		17.9					21.4					24.9			
Percent of shelled corn	85.0	High											Low	134-137	
		87.3					85.8					84.5			
Density of shelled corn	34.6	Heavy											Light	138-141	
		35.6					34.2					32.4			
Germination index	87.4	High											Low	142-145	
		93.8					87.1					64.5			
Disease index	90.2	Little											Much	146-149	
		90.2					75.7					58.3			
Weight of ears	12.35	Heavy											Light	150-153	
		15.07					12.75					10.35			
Yield test score Items observed by oldtime corn judges															
Density of ears	-1 39.67	Heavy					Median						Light	154-157	
		42.03					39.54					37.58			
Kernel development	+3 67.9	Good											Poor	158-161	
		78.6					56.4					38.3			
Indentation index	+3 33.0	Smooth											Rough	162-165	
		16.5					44.7					87.3			
Length of kernels	-5 12.86	Long											Short	166-169	
		15.72					13.41					12.47			
Width of kernels	+1 7.94	Wide											Narrow	170-173	
		9.01					7.92					7.12			
Thickness of kernels	+1 4.32	Thick											Thin	174-177	
		4.42					4.21					3.89			
Length of ears	-1 9.17	Long											Short	178-181	
		9.67					8.96					8.25			
Diameter of ears	+1 2.079	Small											Large	182-185	
		2.012					2.137					2.304			
No. of rows of kernels	+1 18.2	Small											Large	186-189	
		14.9					18.3					20.9			
Color of shank index	-1 60.0	White											Dark	190-193	
		86.7					67.7					36.7			
Condition of shank index	-1 36.7	Smooth											Rough	194-197	
		58.3					36.4					18.3			
Variation index	-1 8.0	Uniform											Uneven	198-201	
		3.0					7.0					11.0			
Total ±0 * A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.															202-205

* A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.

Sample No. 89-39, entered by

C.W. FUNK

Selected and grown 12 years by Mt. Funk.
His seed was obtained from C.H. Uphof.

Typical of James Reid's Reids Yellow Dent. Pages 210 and 211

89
39

90

DESCRIPTIVE DATA FOR SAMPLE NUMBER 90-41

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10		

Items that required field or laboratory tests

YOL II

Bushels per acre	70.2	High 78.1				Median 71.7		•			Low 61.0	122-125
Percent of good corn	89.1	High 92.7				89.8		•			Low 85.8	126-129
Percent of moisture	20.7	Low 17.9	•			21.4					High 24.9	130-133
Percent of shelled corn	85.6	High 87.3				85.8	•				Low 84.5	134-137
Density of shelled corn	33.8	Heavy 35.6				34.2		•			Light 32.4	138-141
Germination index	85.0	High 93.8				87.1		•			Low 64.5	142-145
Disease index	83.8	Little 90.2	•			75.7					Much 58.3	146-149
Weight of ears	12.68	Heavy 15.07				12.75	•				Light 10.35	150-153

Yield test score

Items observed by oldtime corn judges

Density of ears	-1 39.43	Heavy 42.03				Median 39.54					Light 37.58	154-157
Kernel development	+1 52.6	Good 78.6				56.4		•			Poor 38.3	158-161
Indentation index	-1 45.5	Smooth 16.5				44.7		•			Rough 87.3	162-165
Length of kernels	+1 13.27	Long 15.72				13.41		•			Short 12.47	166-169
Width of kernels	+1 8.29	Wide 9.01	•			7.92					Narrow 7.12	170-173
Thickness of kernels	+1 4.30	Thick 4.42	•			4.21					Thin 3.89	174-177
Length of ears	+1 8.83	Long 9.67				8.96		•			Short 8.25	178-181
Diameter of ears	+1 2.154	Small 2.012				2.137		•			Large 2.304	182-185
No. of rows of kernels	+1 17.7	Small 14.9		•		18.3					Large 20.9	186-189
Color of shank index	-1 80.0	White 86.7	•			67.7					Dark 36.7	190-193
Condition of shank index	-1 35.0	Smooth 58.3				38.4		•			Rough 18.3	194-197
Variation index	-1 7.0	Uniform 3.0				7.0	•				Uneven 11.0	198-201

★ Total +2
A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.

202-205

Sample No. 90-41, entered by

OSCAR SULLIVAN

There is no record of the years selected and grown or the source of the seed.

90
41

DESCRIPTIVE DATA FOR SAMPLE NUMBER 91-94

0 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														
Bushels per acre	90.2	High 78.1				Median 71.7							Low 61.0	122-125
Percent of good corn	90.5	High 92.7											Low 85.8	126-129
Percent of moisture	21.8	Low 17.9											High 24.9	130-133
Percent of shelled corn	86.2	High 87.3											Low 84.5	134-137
Density of shelled corn	34.3	Heavy 35.6											Light 32.4	138-141
Germination index	81.9	High 93.8											Low 64.5	142-145
Disease index	65.2	Little 90.2											Much 58.3	146-149
Weight of ears	12.13	Heavy 15.07											Light 10.35	150-153
Yield test score Items observed by oldtime corn judges														
Density of ears	-1 38.79	Heavy 42.03				Median 39.54							Light 37.58	154-157
Kernel development	+1 55.3	Good 78.6											Poor 38.3	158-161
Indentation index	-1 31.0	Smooth 16.5											Rough 87.3	162-165
Length of kernels	-1 13.12	Long 15.72											Short 12.47	166-169
Width of kernels	-3 7.66	Wide 9.01											Narrow 7.12	170-173
Thickness of kernels	+1 4.24	Thick 4.42											Thin 3.89	174-177
Length of ears	+1 8.75	Long 9.67											Short 8.25	178-181
Diameter of ears	+1 2.133	Small 2.012											Large 2.304	182-185
No. of rows of kernels	-3 19.1	Small 14.9											Large 20.9	186-189
Color of shank index	-1 61.7	White 86.7											Dark 36.7	190-193
Condition of shank index	-1 33.3	Smooth 58.3											Rough 18.3	194-197
Variation index	-1 7.0	Uniform 3.0											Uneven 11.0	198-201
Total -2 ★ A relationship of each descriptive item to yield and to all other items														

Vol. II

Sample No. 91-94, entered by

J.C. SMITH

Selected and grown 12 years by Mr. Smith.
There is no record of the source of his seed.

91
94

92

DESCRIPTIVE DATA FOR SAMPLE NUMBER 92-104

10 in.

9 in.

8 in.



Descriptive items	Value for this sample	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10		
Items that required field or laboratory tests													VOL. II
Bushels per acre	70.2	High				Median						Low	122-125
		78.1				71.7						61.0	
Percent of good corn	89.4	High										Low	126-129
		92.7				89.8						85.8	
Percent of moisture	22.1	Low										High	130-133
		17.9				21.4						24.9	
Percent of shelled corn	86.0	High										Low	134-137
		87.3				85.8						84.5	
Density of shelled corn	33.5	Heavy										Light	138-141
		35.6				34.2						32.4	
Germination index	84.0	High										Low	142-145
		93.8				87.1						64.5	
Disease index	66.2	Little										Much	146-149
		90.2				75.7						58.3	
Weight of ears	13.10	Heavy										Light	150-153
		15.07				12.75						10.35	
Yield test score Items observed by oldtime corn judges													
Density of ears	-1 39.77	Heavy				Median						Light	154-157
		42.03				39.54						37.58	
Kernel development	+1 58.3	Good										Poor	158-161
		78.6				56.4						38.3	
Indentation index	-1 56.7	Smooth										Rough	162-165
		16.5				44.7						87.3	
Length of kernels	-5 14.17	Long										Short	166-169
		15.72				13.41						12.47	
Width of kernels	+1 7.98	Wide										Narrow	170-173
		9.01				7.92						7.12	
Thickness of kernels	+1 4.23	Thick										Thin	174-177
		4.42				4.21						3.89	
Length of ears	+1 9.04	Long										Short	178-181
		9.67				8.96						8.25	
Diameter of ears	+1 2.154	Small										Large	182-185
		2.012				2.137						2.304	
No. of rows of kernels	+1 18.4	Small										Large	186-189
		14.9				18.3						20.9	
Color of shank index	-1 61.7	White										Dark	190-193
		86.7				67.7						36.7	
Condition of shank index	+1 43.3	Smooth										Rough	194-197
		58.3				38.4						18.3	
Variation index	-1 7.0	Uniform										Uneven	198-201
		3.0				7.0						11.0	
Total -2 ★ A relationship of each descriptive item to yield and to all other items													202-205

Sample No. 92-104, entered by

P.F. STREID

Selected and grown six years by Mr. Streid.
His seed was obtained from the Sommers Brothers Seed Company, Pekin, Illinois.

DESCRIPTIVE DATA FOR SAMPLE NUMBER 93-61

10 in.

9 in.

8 in.



Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														
Bushels per acre	70.1	High					Median						Low	122-125
		78.1					71.7						61.0	
Percent of good corn	90.7	High											Low	126-129
		92.7					89.8						85.8	
Percent of moisture	20.3	Low											High	130-133
		17.9					21.4						24.9	
Percent of shelled corn	84.5	High											Low	134-137
		87.3					85.8						84.5	
Density of shelled corn	34.9	Heavy											Light	138-141
		35.6					34.2						32.4	
Germination index	81.4	High											Low	142-145
		93.8					87.1						64.5	
Disease index	75.5	Little											Much	146-149
		90.2					75.7						58.3	
Weight of ears	11.10	Heavy											Light	150-153
		15.07					12.75						10.35	
Yield test score Items observed by oldtime corn judges														
Density of ears	-1 39.19	Heavy					Median						Light	154-157
		42.03					39.54						37.58	
Kernel development	+3 64.8	Good											Poor	158-161
		78.6					56.4						38.3	
Indentation index	+1 43.7	Smooth											Rough	162-165
		16.5					44.7						87.3	
Length of kernels	-5 12.83	Long											Short	166-169
		15.72					13.41						12.47	
Width of kernels	+1 8.84	Wide											Narrow	170-173
		9.01					7.92						7.12	
Thickness of kernels	-5 4.04	Thick											Thin	174-177
		4.42					4.21						3.89	
Length of ears	+1 8.58	Long											Short	178-181
		9.67					8.96						8.25	
Diameter of ears	+1 2.050	Small											Large	182-185
		2.012					2.137						2.304	
No. of rows of kernels	+1 14.9	Small											Large	186-189
		14.9					18.3						20.9	
Color of shank index	-1 80.0	White											Dark	190-193
		86.7					67.7						36.7	
Condition of shank index	-1 38.3	Smooth											Rough	194-197
		58.3					38.4						18.3	
Variation index	-1 8.0	Uniform											Uneven	198-201
		3.0					7.0						11.0	
Total -6														
★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														
202-205														

Sample No. 93-61, analyzed by

THEO STIMPETT

Selected and grown 18 years by Mr. Stimpett.
There is no record of the source of his seed.
This is one of only six white samples entered in the test.

94

DESCRIPTIVE DATA FOR SAMPLE NUMBER 94-17

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored
			1	2	3	4	5	6	7	8	9	10	

See page

Items that required field or laboratory tests

VOL. II

Bushels per acre	70.1	High					Median						Low
		78.1					71.7						61.0
Percent of good corn	89.8	High					89.8						Low
		92.7											85.8
Percent of moisture	23.2	Low					21.4						High
		17.9											24.9
Percent of shelled corn	85.8	High					85.8						Low
		87.3											84.5
Density of shelled corn	34.5	Heavy											Light
		35.6					34.2						32.4
Germination index	85.7	High					87.1						Low
		93.8											64.5
Disease index	83.8	Little					75.7						Much
		90.2											58.3
Weight of ears	13.10	Heavy					12.75						Light
		15.07											10.35

122-125

126-129

130-133

134-137

138-141

142-145

146-149

150-153

Yield Test Score

Items observed by oldtime corn judges

Density of ears	-1	38.83	Heavy				Median						Light
			42.03				39.54						37.58
Kernel development	+1	62.4	Good										Poor
			78.6				56.4						38.3
Indentation index	+1	41.0	Smooth				44.7						Rough
			16.5										87.3
Length of kernels	+1	13.47	Long				13.41						Short
			15.72										12.47
Width of kernels	-3	7.65	Wide				7.92						Narrow
			9.01										7.12
Thickness of kernels	+1	4.25	Thick				4.21						Thin
			4.42										3.89
Length of ears	+1	9.08	Long				8.96						Short
			9.67										8.25
Diameter of ears	-1	2.175	Small				2.137						Large
			2.012										2.304
No. of rows of kernels	-1	19.1	Small				18.3						Large
			14.9										20.9
Color of shank index	-1	80.0	White				67.7						Dark
			86.7										36.7
Condition of shank index	-1	36.7	Smooth				38.4						Rough
			58.3										18.3
Variation index	-1	8.0	Uniform				7.0						Uneven
			3.0										11.0

154-157

158-161

162-165

166-169

170-173

174-177

178-181

182-185

186-189

190-193

194-197

198-201

202-205

★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.

Sample No. 94-17, entered by

A.J. BECTEL

Selected and grown 10 years by Mr. Bectel.
His seed was obtained from W.H. Smith, a neighbor.

94

17

95

DESCRIPTIVE DATA FOR SAMPLE NUMBER 95-10

10 in.

9 in.

8 in.



Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		
Items that required field or laboratory tests													Vol. II	
Bushels per acre	69.9	High 78.1				Median 71.7		•				Low 61.0	122-125	
Percent of good corn	91.9	• 92.7				89.8						Low 85.8	126-129	
Percent of moisture	20.6	Low 17.9	•			21.4						High 24.9	130-133	
Percent of shelled corn	86.6	High 87.3	•			85.8						Low 84.5	134-137	
Density of shelled corn	34.0	Heavy 35.6				34.2		•				Light 32.4	138-141	
Germination index	93.1	• 93.8				87.1						Low 64.5	142-145	
Disease index	87.1	Little 90.2	•			75.7						Much 58.3	146-149	
Weight of ears	12.52	Heavy 15.07				12.75		•				Light 10.35	150-153	
field test poor Items observed by oldtime corn judges														
Density of ears	-1 39.56	Heavy 42.03				• 39.54						Light 37.58	154-158	
Kernel development	+1 63.6	Good 78.6	•			56.4						Poor 38.3	158-161	
Indentation index	+1 40.2	Smooth 16.5		•		44.7						Rough 87.3	162-165	
Length of kernels	+1 13.49	Long 15.72		•		13.41						Short 12.47	166-169	
Width of kernels	-1 7.74	Wide 9.01				7.92		•				Narrow 7.12	170-173	
Thickness of kernels	+1 4.17	Thick 4.42				4.21		•				Thin 3.89	174-177	
Length of ears	+1 9.00	Long 9.67				• 8.96						Short 8.25	178-181	
Diameter of ears	+1 2.108	Small 2.012	•			2.137						Large 2.304	182-185	
No. of rows of kernels	-5 19.4	Small 14.9				18.3				•		Large 20.9	186-189	
Color of shank index	-1 75.0	White 86.7	•			67.7						Dark 36.7	190-193	
Condition of shank index	-1 36.7	Smooth 58.3				38.4				•		Rough 18.3	194-197	
Variation index	-1 7.0	Uniform 3.0				• 7.0						Uneven 11.0	198-201	
Total -4													202-205	
★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														

Sample No. 95-10, entered by

WILL ORTH

Selected and grown 10 years by Mr. Orth.
His seed was obtained from W.H. Smith a neighbor.

96

DESCRIPTIVE DATA FOR SAMPLE NUMBER 96-68

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page	
		1	2	3	4	5	6	7	8	9	10				
Items that required field or laboratory tests															VOL. II
Bushels per acre	69.9	High					Median						Low	122-125	
		78.1					71.7						61.0		
Percent of good corn	89.2	High											Low	126-129	
		92.7					89.8						85.8		
Percent of moisture	21.4	Low											High	130-133	
		17.9					21.4						24.9		
Percent of shelled corn	85.0	High											Low	134-137	
		87.3					85.8						84.5		
Density of shelled corn	34.8	Heavy											Light	138-141	
		35.6					34.2						32.4		
Germination index	87.1	High											Low	142-145	
		93.8					87.1						64.5		
Disease index	61.5	Little											Much	146-149	
		90.2					75.7						58.3		
Weight of ears	12.77	Heavy											Light	150-153	
		15.07					12.75						10.35		
Yield test Items observed by oldtime corn judges															
Density of ears	-1 39.44	Heavy					Median						Light	154-157	
		42.03					39.54						37.58		
Kernel development	+1 53.6	Good											Poor	158-161	
		78.6					56.4						38.3		
Indentation index	-1 29.0	Smooth											Rough	162-165	
		16.5					44.7						87.3		
Length of kernels	-5 12.85	Long											Short	166-169	
		15.72					13.41						12.47		
Width of kernels	-5 7.51	Wide											Narrow	170-173	
		9.01					7.92						7.12		
Thickness of kernels	+1 4.15	Thick											Thin	174-177	
		4.42					4.21						3.89		
Length of ears	+1 8.92	Long											Short	178-181	
		9.67					8.96						8.25		
Diameter of ears	+1 2.150	Small											Large	182-185	
		2.012					2.137						2.304		
No. of rows of kernels	-5 19.6	Small											Large	186-189	
		14.9					18.3						20.9		
Color of shank index	-1 60.0	White											Dark	190-193	
		86.7					67.7						36.7		
Condition of shank index	-1 33.3	Smooth											Rough	194-197	
		58.3					38.4						18.3		
Variation index	-1 8.0	Uniform											Uneven	198-201	
		3.0					7.0						11.0		
Total -16 ★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.															202-205

Sample No. 96-68, entered by

ROBERT MAYNE

Selected and grown five years by Mr. Mayne.
His seed was developed from a mixture of Reids Yellow
Dent and Leaming.

See pages 10 and 11.

96

68

DESCRIPTIVE DATA FOR SAMPLE NUMBER 97-114

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														VOL 1
Bushels per acre	69.8	High 78.1				Median 71.7						Low 61.0	122-125	
Percent of good corn	88.9	High 92.7				89.8						Low 85.8	126-129	
Percent of moisture	23.1	Low 17.9				21.4						High 24.9	130-133	
Percent of shelled corn	84.9	High 87.3				85.8						Low 84.5	134-137	
Density of shelled corn	34.1	Heavy 35.6				34.2						Light 32.4	138-141	
Germination index	93.8	High 93.8				87.1						Low 64.5	142-145	
Disease index	73.3	Little 90.2				75.7						Much 58.3	146-149	
Weight of ears	11.55	Heavy 15.07				12.75						Light 10.35	150-153	
Yield test score Items observed by oldtime corn judges														
Density of ears	-5 38.09	Heavy 42.03				Median 39.54						Light 37.58	154-157	
Kernel development	-7 42.9	Good 78.6				56.4						Poor 38.3	158-161	
Indentation index	+3 36.7	Smooth 16.5				44.7						Rough 87.3	162-165	
Length of kernels	-5 12.73	Long 15.72				13.41						Short 12.47	166-169	
Width of kernels	+1 8.31	Wide 9.01				7.92						Narrow 7.12	170-173	
Thickness of kernels	+1 4.29	Thick 4.42				4.21						Thin 3.89	174-177	
Length of ears	+1 9.00	Long 9.67				8.96						Short 8.25	178-181	
Diameter of ears	+1 2.071	Small 2.012				2.137						Large 2.304	182-185	
No. of rows of kernels	+1 17.1	Small 14.9				18.3						Large 20.9	186-189	
Color of shank index	+1 65.0	White 86.7				67.7						Dark 36.7	190-193	
Condition of shank index	-1 36.7	Smooth 58.3				38.4						Rough 18.3	194-197	
Variation index	-1 8.0	Uniform 3.0				7.0						Uneven 11.0	198-201	
Total -10 ★ A relationship of each descriptive item to yield and to all other items														202-205

VOLT

Sample No. 97-114, entered by

HARRY CROSSMAN

There is no record of the years selected and grown
or of the source of Mr. Crossman's corn.

97
114

98

DESCRIPTIVE DATA FOR SAMPLE NUMBER 98-38

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		

Items that required field or laboratory tests

VOL. II

Bushels per acre	69.7	High 78.1					Median 71.7						Low 61.0	122- 125
Percent of good corn	90.2	High 92.7					89.8						Low 85.8	126- 129
Percent of moisture	20.7	Low 17.9					21.4						High 24.9	130- 133
Percent of shelled corn	86.3	High 87.3					85.8						Low 84.5	134- 137
Density of shelled corn	33.6	Heavy 35.6					34.2						Light 32.4	138- 141
Germination index	85.0	High 93.8					87.1						Low 64.5	142- 145
Disease index	76.7	Little 90.2					75.7						Much 58.3	146- 149
Weight of ears	12.70	Heavy 15.07					12.75						Light 10.35	150- 153

Yield
Test
score

Items observed by oldtime corn judges

Density of ears	-1	39.48	Heavy 42.03				Median 39.54						Light 37.58	154- 157
Kernel development	-7	38.3	Good 78.6				56.4						Poor 38.3	158- 161
Indentation index	-7	66.7	Smooth 16.5				44.7						Rough 87.3	162- 165
Length of kernels	+3	13.87	Long 15.72				13.41						Short 12.47	166- 169
Width of kernels	+1	7.87	Wide 9.01				7.92						Narrow 7.12	170- 173
Thickness of kernels	+1	4.10	Thick 4.42				4.21						Thin 3.89	174- 177
Length of ears	+1	8.67	Long 9.67				8.96						Short 8.25	178- 181
Diameter of ears	-1	2.175	Small 2.012				2.137						Large 2.304	182- 185
No. of rows of kernels	+1	18.3	Small 14.9				18.3						Large 20.9	186- 189
Color of shank index	+1	71.7	White 86.7				67.7						Dark 36.7	190- 193
Condition of shank index	-1	25.0	Smooth 58.3				38.4						Rough 18.3	194- 197
Variation index	-1	8.0	Uniform 3.0				7.0						Uneven 11.0	198- 201

★ *Total -10*
A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.

Sample No. 98-38, entered by

HENRY BARTH

Selected and grown four years by Mr. Barth.
His seed was obtained from the Ellsbery Seed Company.

See pages 210 and 211.

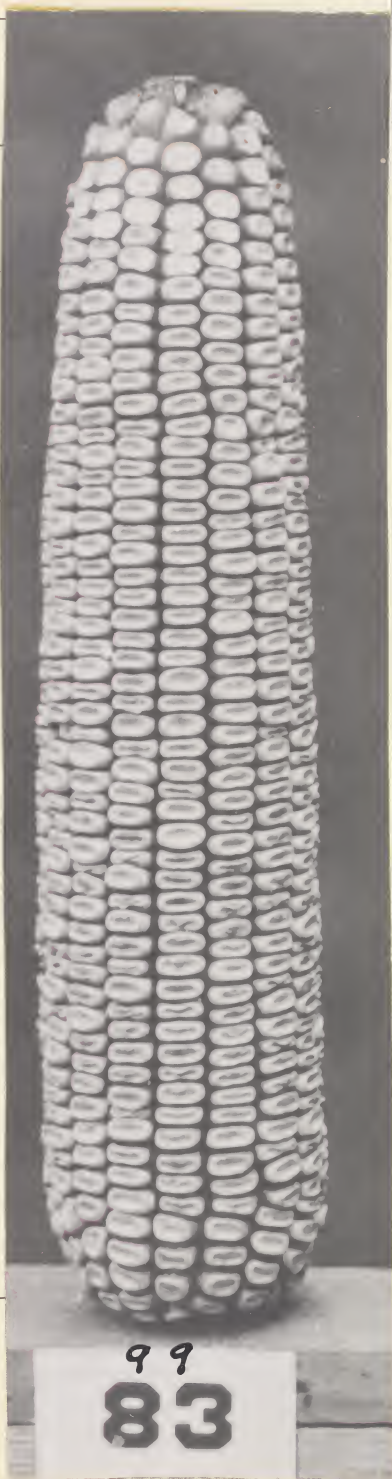
98
38

DESCRIPTIVE DATA FOR SAMPLE NUMBER 99-83

10 in.

9 in.

8 in.



Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page	
		1	2	3	4	5	6	7	8	9	10				
Items that required field or laboratory tests															VOL. II
Bushels per acre	69.6	High 78.1					Median 71.7						Low 61.0	122-125	
Percent of good corn	90.7	High 92.7	●				89.8						Low 85.8	126-129	
Percent of moisture	21.4	Low 17.9					21.4						High 24.9	130-133	
Percent of shelled corn	84.7	High 87.3					85.8						Low 84.5	134-137	
Density of shelled corn	34.8	Heavy 35.6	●				34.2						Light 32.4	138-141	
Germination index	84.5	High 93.8					87.1				●		Low 64.5	142-145	
Disease index	63.3	Little 90.2					75.7						Much 58.3	146-149	
Weight of ears	12.17	Heavy 15.07					12.75				●		Light 10.35	150-153	
Yield Test Score Items observed by oldtime corn judges															
Density of ears	-5 38.40	Heavy 42.03					Median 39.54						Light 37.58	154-157	
Kernel development	+1 62.6	Good 78.6		●			56.4						Poor 38.3	158-161	
Indentation index	-1 31.2	Smooth 16.5	●				44.7						Rough 87.3	162-165	
Length of kernels	-5 12.74	Long 15.72					13.41						Short 12.47	166-169	
Width of kernels	+1 8.24	Wide 9.01		●			7.92						Narrow 7.12	170-173	
Thickness of kernels	+1 4.39	Thick 4.42	●				4.21						Thin 3.89	174-177	
Length of ears	-1 9.37	Long 9.67	●				8.96						Short 8.25	178-181	
Diameter of ears	+1 2.075	Small 2.012	●				2.137						Large 2.304	182-185	
No. of rows of kernels	+1 16.4	Small 14.9	●				18.3						Large 20.9	186-189	
Color of shank index	-1 76.7	White 86.7		●			67.7						Dark 36.7	190-193	
Condition of shank index	-1 35.0	Smooth 58.3					38.4				●		Rough 18.3	194-197	
Variation index	-1 7.0	Uniform 3.0					7.0				●		Uneven 11.0	198-201	
Total -10															202-205
★ A relationship of each descriptive item to yield and to all other items.															

VOL. II

Sample No. 99-83, entered by

I.S. LEMON

Selected and grown six years by Mr. Lemon.
His seed was obtained from W.W. Ellmore, Easton, Illinois.

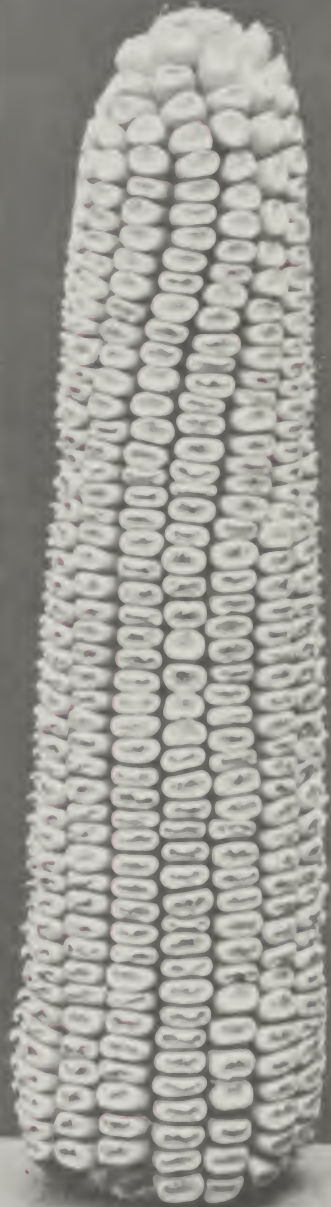
100

DESCRIPTIVE DATA FOR SAMPLE NUMBER 100-80

10 in.

9 in.

8 in.

100
80

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		
Items that required field or laboratory tests														
Bushels per acre	69.5	High 78.1				Median 71.7						Low 61.0	122-125	
Percent of good corn	89.7	High 92.7				89.8						Low 85.8	126-129	
Percent of moisture	20.6	Low 17.9				21.4						High 24.9	130-133	
Percent of shelled corn	85.0	High 87.3				85.8						Low 84.5	134-137	
Density of shelled corn	34.8	Heavy 35.6				34.2						Light 32.4	138-141	
Germination index	87.9	High 93.8				87.1						Low 64.5	142-145	
Disease index	71.4	Little 90.2				75.7						Much 58.3	146-149	
Weight of ears	12.65	Heavy 15.07				12.75						Light 10.35	150-153	
Yield test poor Items observed by oldtime corn judges														
Density of ears	-5 37.58	Heavy 42.03				Median 39.54						Light 37.58	154-157	
Kernel development	-7 48.6	Good 78.6				56.4						Poor 38.3	158-161	
Indentation index	-1 47.0	Smooth 16.5				44.7						Rough 87.3	162-165	
Length of kernels	+1 13.24	Long 15.72				13.41						Short 12.47	166-169	
Width of kernels	+1 8.49	Wide 9.01				7.92						Narrow 7.12	170-173	
Thickness of kernels	+1 4.15	Thick 4.42				4.21						Thin 3.89	174-177	
Length of ears	-1 9.17	Long 9.67				8.96						Short 8.25	178-181	
Diameter of ears	+1 2.162	Small 2.012				2.137						Large 2.304	182-185	
No. of rows of kernels	+1 16.4	Small 14.9				18.3						Large 20.9	186-189	
Color of shank index	-1 78.3	White 86.7				67.7						Dark 36.7	190-193	
Condition of shank index	-1 36.7	Smooth 58.3				38.4						Rough 18.3	194-197	
Variation index	-1 9.0	Uniform 3.0				7.0						Uneven 11.0	198-201	
Total = 12														
A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														
202-205														

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101

DESCRIPTIVE DATA FOR SAMPLE NUMBER 101-77

10 in.

9 in.

8 in.



Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														VOL II
Bushels per acre	69.4	High				Median						Low	122-125	
		78.1				71.7						61.0		
Percent of good corn	87.4	High										Low	126-129	
		92.7				89.8						85.8		
Percent of moisture	22.9	Low										High	130-133	
		17.9				21.4						24.9		
Percent of shelled corn	85.9	High										Low	134-137	
		87.3				85.8						84.5		
Density of shelled corn	33.7	Heavy										Light	138-141	
		35.6				34.2						32.4		
Germination index	92.4	High										Low	142-145	
		93.8				87.1						64.5		
Disease index	85.0	Little										Much	146-149	
		90.2				75.7						58.3		
Weight of ears	11.78	Heavy										Light	150-153	
		15.07				12.75						10.35		
Yield test score Items observed by oldtime corn judges														
Density of ears	-1 39.74	Heavy				Median						Light	154-157	
		42.03				39.54						37.58		
Kernel development	-7 45.5	Good										Poor	158-161	
		78.6				56.4						38.3		
Indentation index	-1 58.0	Smooth										Rough	162-165	
		16.5				44.7						87.3		
Length of kernels	-1 13.12	Long										Short	166-169	
		15.72				13.41						12.47		
Width of kernels	-5 7.27	Wide										Narrow	170-173	
		9.01				7.92						7.12		
Thickness of kernels	-5 3.94	Thick										Thin	174-177	
		4.42				4.21						3.89		
Length of ears	-3 8.42	Long										Short	178-181	
		9.67				8.96						8.25		
Diameter of ears	+1 2.117	Small										Large	182-185	
		2.012				2.137						2.304		
No. of rows of kernels	-5 20.9	Small										Large	186-189	
		14.9				18.3						20.9		
Color of shank index	+1 68.3	White										Dark	190-193	
		86.7				67.7						36.7		
Condition of shank index	+3 50.0	Smooth										Rough	194-197	
		58.3				38.4						18.3		
Variation index	+1 6.0	Uniform										Uneven	198-201	
		3.0				7.0						11.0		
Total -22 ★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														202-205

Sample No. 101-77, entered by

R. L. ACKERMAN

Selected and grown 12 years by Mr. Ackerman.
The seed was obtained from a H. Harding of Iowa.
Mr. Ackerman selected for as little space as possible between rows of kernels.
This sample was one of ten low yield-test-score samples. Page 175-202.

102

DESCRIPTIVE DATA FOR SAMPLE NUMBER 102-115

10 in.

9 in.

8 in.



102

115

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		
Items that required field or laboratory tests														
Bushels per acre	69.3	High 78.1				Median 71.7						Low 61.0	122-125	
Percent of good corn	90.0	High 92.7				89.8						Low 85.8	126-129	
Percent of moisture	19.6	Low 17.9				21.4						High 24.9	130-133	
Percent of shelled corn	84.9	High 87.3				85.8						Low 84.5	134-137	
Density of shelled corn	35.1	Heavy 35.6				34.2						Light 32.4	138-141	
Germination index	92.9	High 93.8				87.1						Low 64.5	142-145	
Disease index	78.3	Little 90.2				75.7						Much 58.3	146-149	
Weight of ears	11.68	Heavy 15.07				12.75						Light 10.35	150-153	
Yield feet acres Items observed by oldtime corn judges														
Density of ears	-1 39.41	Heavy 42.03				Median 39.54						Light 37.58	154-157	
Kernel development	+3 78.6	Good 78.6				56.4						Poor 38.3	158-161	
Indentation index	-1 16.5	Smooth 16.5				44.7						Rough 87.3	162-165	
Length of kernels	-5 12.47	Long 15.72				13.41						Short 12.47	166-169	
Width of kernels	-3 7.66	Wide 9.01				7.92						Narrow 7.12	170-173	
Thickness of kernels	+1 4.11	Thick 4.42				4.21						Thin 3.89	174-177	
Length of ears	-3 8.46	Long 9.67				8.96						Short 8.25	178-181	
Diameter of ears	+1 2.112	Small 2.012				2.137						Large 2.304	182-185	
No. of rows of kernels	+1 18.3	Small 14.9				18.3						Large 20.9	186-189	
Color of shank index	-1 86.7	White 86.7				67.7						Dark 36.7	190-193	
Condition of shank index	+1 43.3	Smooth 58.3				38.4						Rough 18.3	194-197	
Variation index	-1 8.0	Uniform 3.0				7.0						Uneven 11.0	198-201	
Total - 3 A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														
202-205														

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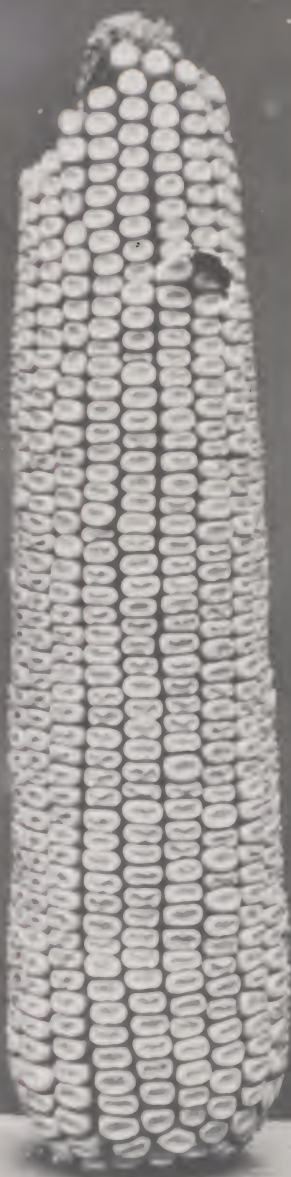
103

DESCRIPTIVE DATA FOR SAMPLE NUMBER 103-116

10 in.

9 in.

8 in.

103
116

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														VOL. II
Bushels per acre	69.2	High					Median						Low	122-125
		78.1				71.7						61.0		
Percent of good corn	88.8	High											Low	126-129
		92.7				89.8						85.8		
Percent of moisture	20.9	Low											High	130-133
		17.9				21.4						24.9		
Percent of shelled corn	87.0	High											Low	134-137
		87.3				85.8						84.5		
Density of shelled corn	34.2	Heavy											Light	138-141
		35.6				34.2						32.4		
Germination index	83.3	High											Low	142-145
		93.8				87.1						64.5		
Disease index	70.7	Little											Much	146-149
		90.2				75.7						58.3		
Weight of ears	12.22	Heavy											Light	150-153
		15.07				12.75						10.35		
Yield test score Items observed by oldtime corn judges														
Density of ears	-5 37.87	Heavy					Median						Light	154-157
		42.03				39.54						37.58		
Kernel development	+3 63.8	Good											Poor	158-161
		78.6				56.4						38.3		
Indentation index	+3 38.2	Smooth											Rough	162-165
		16.5				44.7						87.3		
Length of kernels	-1 13.14	Long											Short	166-169
		15.72				13.41						12.47		
Width of kernels	-1 7.82	Wide											Narrow	170-173
		9.01				7.92						7.12		
Thickness of kernels	+1 4.17	Thick											Thin	174-177
		4.42				4.21						3.89		
Length of ears	+1 8.79	Long											Short	178-181
		9.67				8.96						8.25		
Diameter of ears	+1 2.162	Small											Large	182-185
		2.012				2.137						2.304		
No. of rows of kernels	-1 18.8	Small											Large	186-189
		14.9				18.3						20.9		
Color of shank index	+1 66.7	White											Dark	190-193
		86.7				67.7						36.7		
Condition of shank index	-1 38.3	Smooth											Rough	194-197
		58.3				38.4						18.3		
Variation index	+1 7.0	Uniform											Uneven	198-201
		3.0				7.0						11.0		
★ Total +2 A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														202-205

Sample No. 103-116, entered by

DICKINSON and COMPANY

There is no record of the number of years selected and grown by them.
 Their seed was obtained from R.D. Thom.

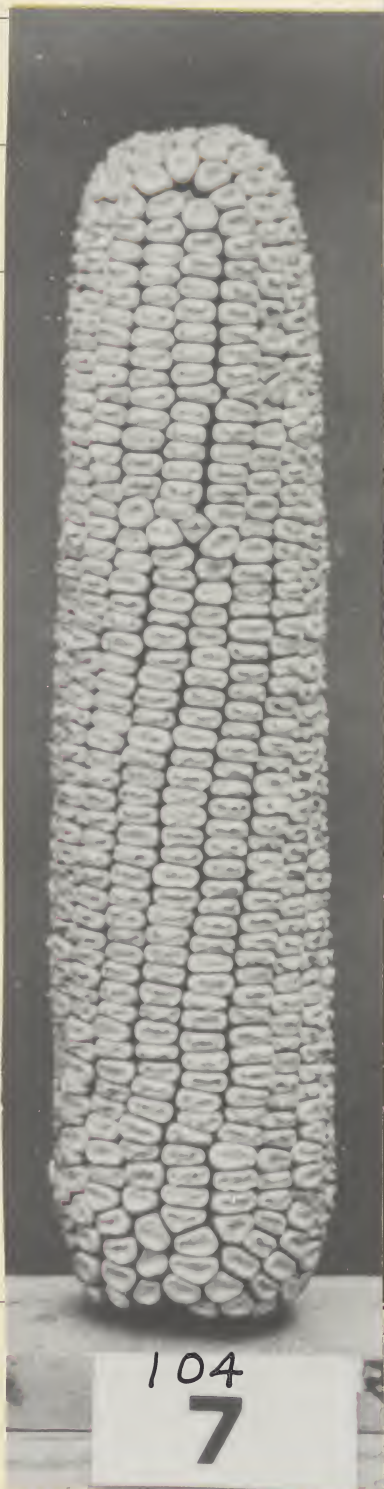
104

DESCRIPTIVE DATA FOR SAMPLE NUMBER 104-7

10 in.

9 in.

8 in.



Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														
Bushels per acre	69.2	High 78.1				Median 71.7							Low 61.0	122-125
Percent of good corn	90.9	High 92.7	•			89.8							Low 85.8	126-129
Percent of moisture	21.2	Low 17.9				21.4							High 24.9	130-133
Percent of shelled corn	84.9	High 87.3				85.8							Low 84.5	134-137
Density of shelled corn	33.6	Heavy 35.6				34.2						•	Light 32.4	138-141
Germination index	83.4	High 93.8				87.1						•	Low 64.5	142-145
Disease index	76.9	Little 90.2			•	75.7							Much 58.3	146-149
Weight of ears	11.85	Heavy 15.07				12.75							Light 10.35	150-153
Yield test score. Items observed by oldtime corn judges														
Density of ears	-1 39.04	Heavy 42.03				Median 39.54						•	Light 37.58	154-157
Kernel development	+1 54.1	Good 78.6				56.4						•	Poor 38.3	158-161
Indentation index	+3 38.5	Smooth 16.5			•	44.7							Rough 87.3	162-165
Length of kernels	-5 12.87	Long 15.72				13.41							Short 12.47	166-169
Width of kernels	+1 7.98	Wide 9.01				7.92							Narrow 7.12	170-173
Thickness of kernels	+1 4.19	Thick 4.42				4.21						•	Thin 3.89	174-177
Length of ears	+1 8.83	Long 9.67				8.96						•	Short 8.25	178-181
Diameter of ears	+1 2.092	Small 2.012	•			2.137							Large 2.304	182-185
No. of rows of kernels	+1 17.5	Small 14.9			•	18.3							Large 20.9	186-189
Color of shank index	-1 76.7	White 86.7	•			67.7							Dark 36.7	190-193
Condition of shank index	-1 35.1	Smooth 58.3				38.4						•	Rough 18.3	194-197
Variation index	-1 8.0	Uniform 3.0				7.0						•	Uneven 11.0	198-201
Total 20														
★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														
202-205														

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7

Sample No. 104-7, entered by

B. E. REESER

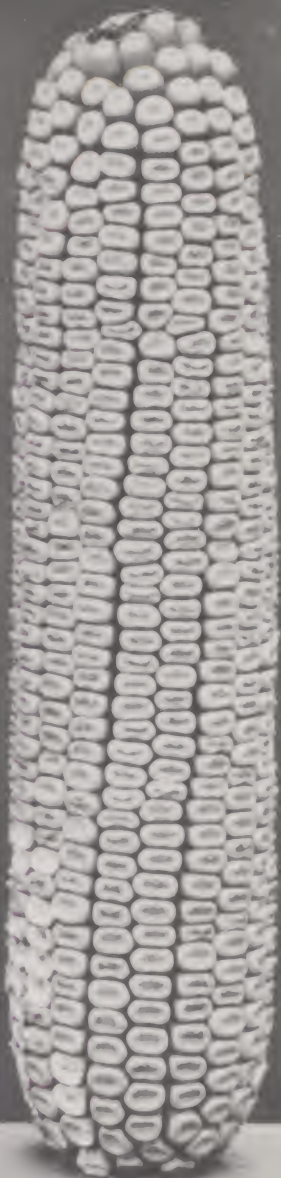
Selected and grown only two years by Mr. Reeser.
His seed was obtained from John Reel, a neighbor.

DESCRIPTIVE DATA FOR SAMPLE NUMBER 105-87

10 in.

9 in.

8 in.



105
87

Descriptive items	Value for this sample	Decil group										Poorest or least favored	See page	
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														
Bushels per acre	69.2	High					Median						Low	122-125
		78.1					71.7						61.0	
Percent of good corn	88.9	High											Low	126-129
		92.7					89.8						85.8	
Percent of moisture	21.6	Low											High	130-133
		17.9					21.4						24.9	
Percent of shelled corn	86.1	High											Low	134-137
		87.3					85.8						84.5	
Density of shelled corn	34.3	Heavy											Light	138-141
		35.6					34.2						32.4	
Germination index	90.3	High											Low	142-145
		93.8					87.1						64.5	
Disease index	64.3	Little											Much	146-149
		90.2					75.7						58.3	
Weight of ears	12.32	Heavy											Light	150-153
		15.07					12.75						10.35	
Yield test score Items observed by oldtime corn judges														
Density of ears	-1 39.40	Heavy					Median						Light	154-157
		42.03					39.54						37.58	
Kernel development	+1 53.6	Good											Poor	158-161
		78.6					56.4						38.3	
Indentation index	-1 56.5	Smooth											Rough	162-165
		16.5					44.7						87.3	
Length of kernels	+1 13.53	Long											Short	166-169
		15.72					13.41						12.47	
Width of kernels	+1 8.48	Wide											Narrow	170-173
		9.01					7.92						7.12	
Thickness of kernels	+1 4.42	Thick											Thin	174-177
		4.42					4.21						3.89	
Length of ears	+1 8.96	Long											Short	178-181
		9.67					8.96						8.25	
Diameter of ears	+1 2.108	Small											Large	182-185
		2.012					2.137						2.304	
No. of rows of kernels	+1 17.2	Small											Large	186-189
		14.9					18.3						20.9	
Color of shank index	-1 46.7	White											Dark	190-193
		86.7					67.7						36.7	
Condition of shank index	-1 18.3	Smooth											Rough	194-197
		58.3					38.4						18.3	
Variation index	+1 7.0	Uniform											Uneven	198-201
		3.0					7.0						11.0	
★ <i>Table +4</i> A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														

VOL. II

Sample No. 105-87, entered by

GEORGE SCHNEIDER

Selected and grown only one year by Mr. Schneider.
His seed was obtained from ___ Staudemeyer.

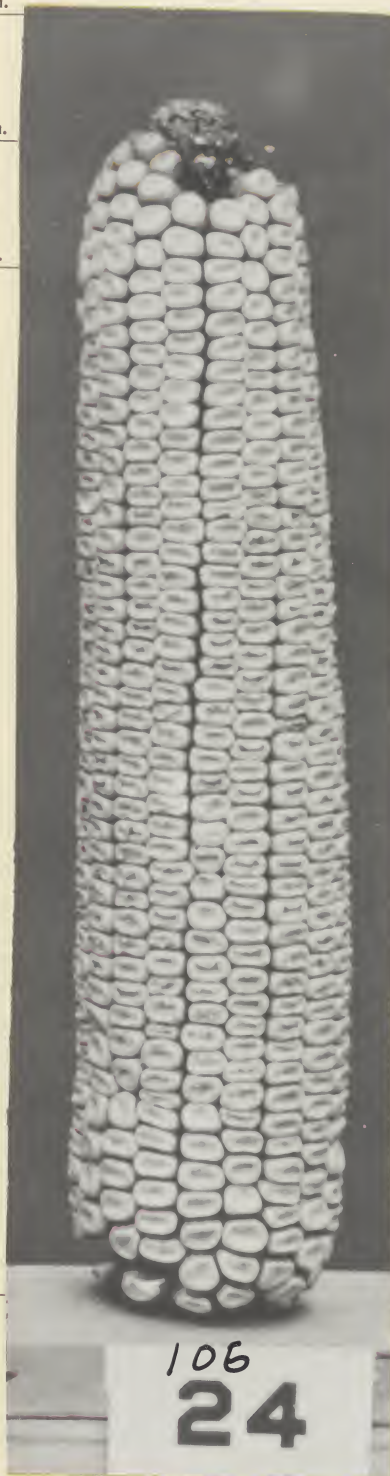
106

DESCRIPTIVE DATA FOR SAMPLE NUMBER 106-24

10 in.

9 in.

8 in.

106
24

Descriptive items	Value for this sample	Best or most favored										Decil group	Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														
Bushels per acre	69.2	High 78.1				Median 71.7						Low 61.0	122-125	
Percent of good corn	88.3	High 92.7				89.8						Low 85.8	126-129	
Percent of moisture	23.2	Low 17.9				21.4						High 24.9	130-133	
Percent of shelled corn	85.2	High 87.3				85.8						Low 84.5	134-137	
Density of shelled corn	34.7	Heavy 35.6				34.2						Light 32.4	138-141	
Germination index	91.0	High 93.8				87.1						Low 64.5	142-145	
Disease index	77.2	Little 90.2				75.7						Much 58.3	146-149	
Weight of ears	13.25	Heavy 15.07				12.75						Light 10.35	150-153	
Yield test score Items observed by oldtime corn judges														
Density of ears +3	41.05	Heavy 42.03				Median 39.54						Light 37.58	154-157	
Kernel development +3	64.5	Good 78.6				56.4						Poor 38.3	158-161	
Indentation index +1	39.0	Smooth 16.5				44.7						Rough 87.3	162-165	
Length of kernels +1	13.23	Long 15.72				13.41						Short 12.47	166-169	
Width of kernels +1	7.97	Wide 9.01				7.92						Narrow 7.12	170-173	
Thickness of kernels +1	4.18	Thick 4.42				4.21						Thin 3.89	174-177	
Length of ears -1	9.17	Long 9.67				8.96						Short 8.25	178-181	
Diameter of ears +1	2.117	Small 2.012				2.137						Large 2.304	182-185	
No. of rows of kernels +1	18.1	Small 14.9				18.3						Large 20.9	186-189	
Color of shank index -1	75.0	White 86.7				67.7						Dark 36.7	190-193	
Condition of shank index +7	53.3	Smooth 58.3				38.4						Rough 18.3	194-197	
Variation index +1	7.0	Uniform 3.0				7.0						Uneven 11.0	198-201	
Total +18														
★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														

Sample No. 106-24, entered by

JOSEPH YORDY

Selected and grown 19 years by Mr. Yordy. There is no record of the source of his seed. While Mr. Yordy's sample was one of the lowest in yield, it was one of the ten high "yield-test-score" samples. Page 174, 203.

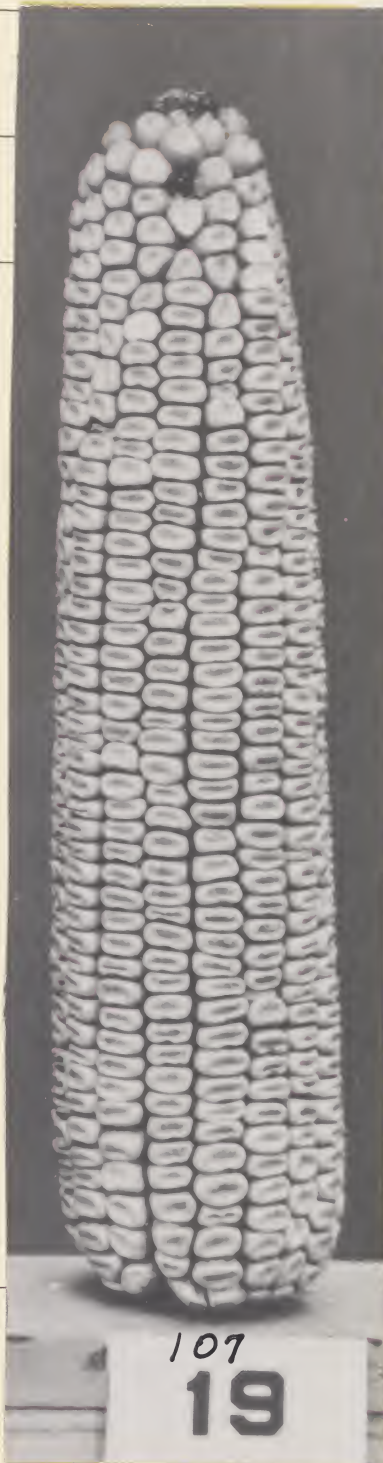
107

DESCRIPTIVE DATA FOR SAMPLE NUMBER 107-19

10 in.

9 in.

8 in.



Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		
Items that required field or laboratory tests													VOL. II	
Bushels per acre	69.2	High				Median						Low	122-125	
		78.1				71.7						61.0		
Percent of good corn	87.6	High										Low	126-129	
		92.7				89.8						85.8		
Percent of moisture	24.7	Low										High	130-133	
		17.9				21.4						24.9		
Percent of shelled corn	84.9	High										Low	134-137	
		87.3				85.8						84.5		
Density of shelled corn	34.4	Heavy										Light	138-141	
		35.6				34.2						32.4		
Germination index	86.6	High										Low	142-145	
		93.8				87.1						64.5		
Disease index	83.0	Little										Much	146-149	
		90.2				75.7						58.3		
Weight of ears	12.67	Heavy										Light	150-153	
		15.07				12.75						10.35		
Yield test per acre Items observed by oldtime corn judges														
Density of ears	-5 38.36	Heavy				Median						Light	154-157	
		42.03				39.54						37.58		
Kernel development	+1 63.2	Good										Poor	158-161	
		78.6				56.4						38.3		
Indentation index	+1 40.2	Smooth										Rough	162-165	
		16.5				44.7						87.3		
Length of kernels	+1 13.24	Long										Short	166-169	
		15.72				13.41						12.47		
Width of kernels	+1 8.48	Wide										Narrow	170-173	
		9.01				7.92						7.12		
Thickness of kernels	+1 4.29	Thick										Thin	174-177	
		4.42				4.21						3.89		
Length of ears	-1 9.21	Long										Short	178-181	
		9.67				8.96						8.25		
Diameter of ears	+1 2.137	Small										Large	182-185	
		2.012				2.137						2.304		
No. of rows of kernels	+1 16.6	Small										Large	186-189	
		14.9				18.3						20.9		
Color of shank index	-1 81.7	White										Dark	190-193	
		86.7				67.7						36.7		
Condition of shank index	+1 45.0	Smooth										Rough	194-197	
		58.3				38.4						18.3		
Variation index	+1 7.0	Uniform										Uneven	198-201	
		3.0				7.0						11.0		
Total +2 ★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														202-205

Sample No. 107-19, entered by

C.H. SMITH

Selected and grown three years by Mr. Smith.
His seed was obtained from Frank I. Mann who was
well known as "the best corn grower in Illinois".
See also, No. 108-119.

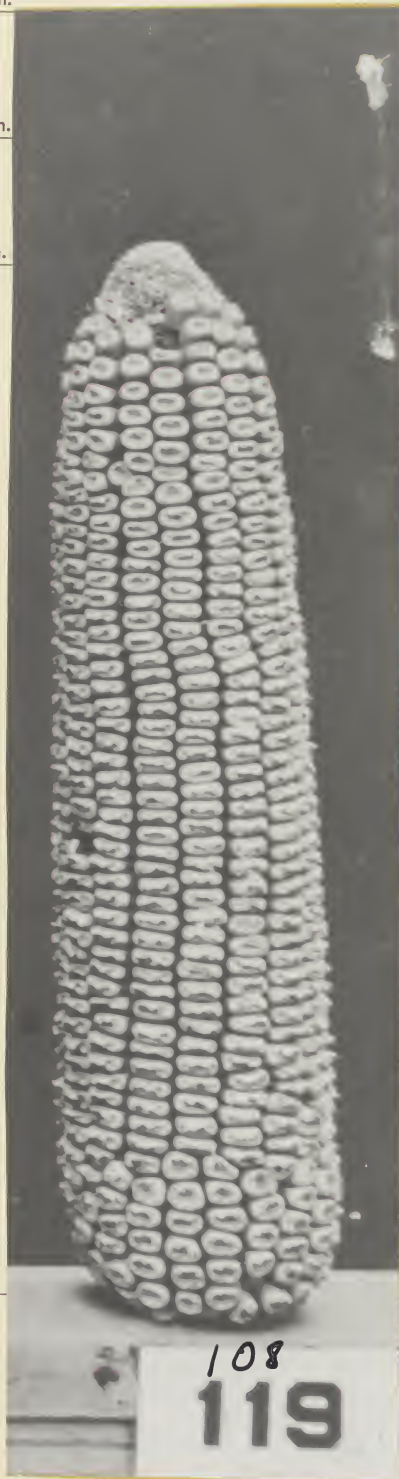
108

DESCRIPTIVE DATA FOR SAMPLE NUMBER 108-119

10 in.

9 in.

8 in.



Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		
Items that required field or laboratory tests														
Bushels per acre	68.8	High 78.1				Median 71.7						Low 61.0	122-125	
Percent of good corn	88.9	High 92.7				89.8						Low 85.8	126-129	
Percent of moisture	17.9	Low 17.9				21.4						High 24.9	130-133	
Percent of shelled corn	85.4	High 87.3				85.8						Low 84.5	134-137	
Density of shelled corn	35.0	Heavy 35.6				34.2						Light 32.4	138-141	
Germination index	—	High 93.8				87.1						Low 64.5	142-145	
Disease index	—	Little 90.2				75.7						Much 58.3	146-149	
Weight of ears	10.35	Heavy 15.07				12.75						Light 10.35	150-153	
Yield test score Items observed by oldtime corn judges														
Density of ears	-1 39.17	Heavy 42.03				Median 39.54						Light 37.58	154-157	
Kernel development	-3 50.0	Good 78.6				56.4						Poor 38.3	158-161	
Indentation index	-1 48.1	Smooth 16.5				44.7						Rough 87.3	162-165	
Length of kernels	-1 13.19	Long 15.72				13.41						Short 12.47	166-169	
Width of kernels	+1 7.94	Wide 9.01				7.92						Narrow 7.12	170-173	
Thickness of kernels	-5 3.89	Thick 4.42				4.21						Thin 3.89	174-177	
Length of ears	-3 8.31	Long 9.67				8.96						Short 8.25	178-181	
Diameter of ears	+1 2.012	Small 2.012				2.137						Large 2.304	182-185	
No. of rows of kernels	+1 16.6	Small 14.9				18.3						Large 20.9	186-189	
Color of shank index	+1 70.0	White 86.7				67.7						Dark 36.7	190-193	
Condition of shank index	-1 35.0	Smooth 58.3				38.4						Rough 18.3	194-197	
Variation index	-1 8.0	Uniform 3.0				7.0						Uneven 11.0	198-201	
Total 12 ★ A relationship of each descriptive item to yield and to all other items														

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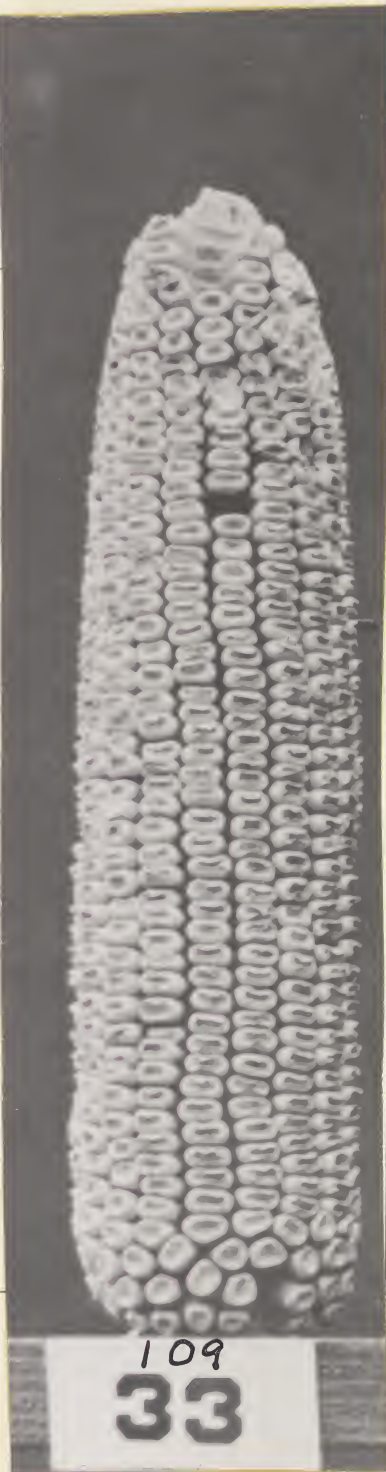
119

DESCRIPTIVE DATA FOR SAMPLE NUMBER 109-33

10 in.

9 in.

8 in.



Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														VOL. II
Bushels per acre	68.7	High				Median						Low	122-125	
		78.1				71.7						61.0		
Percent of good corn	91.4	High										Low	126-129	
		92.7				89.8						85.8		
Percent of moisture	21.1	Low										High	130-133	
		17.9				21.4						24.9		
Percent of shelled corn	84.5	High										Low	134-137	
		87.3				85.8						84.5		
Density of shelled corn	34.9	Heavy										Light	138-141	
		35.6				34.2						32.4		
Germination index	87.9	High										Low	142-145	
		93.8				87.1						64.5		
Disease index	76.0	Little										Much	146-149	
		90.2				75.7						58.3		
Weight of ears	12.23	Heavy										Light	150-153	
		15.07				12.75						10.35		
Yield test score Items observed by oldtime corn judges														
Density of ears	-1 39.38	Heavy				Median						Light	154-157	
		42.03				39.54						37.58		
Kernel development	+1 56.4	Good										Poor	158-161	
		78.6				56.4						38.3		
Indentation index	-1 49.7	Smooth										Rough	162-165	
		16.5				44.7						87.3		
Length of kernels	-1 12.93	Long										Short	166-169	
		15.72				13.41						12.47		
Width of kernels	+1 8.04	Wide										Narrow	170-173	
		9.01				7.92						7.12		
Thickness of kernels	-5 3.99	Thick										Thin	174-177	
		4.42				4.21						3.89		
Length of ears	+1 8.79	Long										Short	178-181	
		9.67				8.96						8.25		
Diameter of ears	+1 2.121	Small										Large	182-185	
		2.012				2.137						2.304		
No. of rows of kernels	+1 17.9	Small										Large	186-189	
		14.9				18.3						20.9		
Color of shank index	-1 76.7	White										Dark	190-193	
		86.7				67.7						36.7		
Condition of shank index	-1 36.7	Smooth										Rough	194-197	
		58.3				38.4						18.3		
Variation index	-1 9.0	Uniform										Uneven	198-201	
		3.0				7.0						11.0		
Total -6 ★ A relationship of each descriptive item to yield and to all other items														202-205

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Sample No. 109-33, entered by

O.A. TUCKER

Selected and grown 8 years by Mr. Tucker.
There is no record of the source of the seed.
One of six white samples.
See page 217.

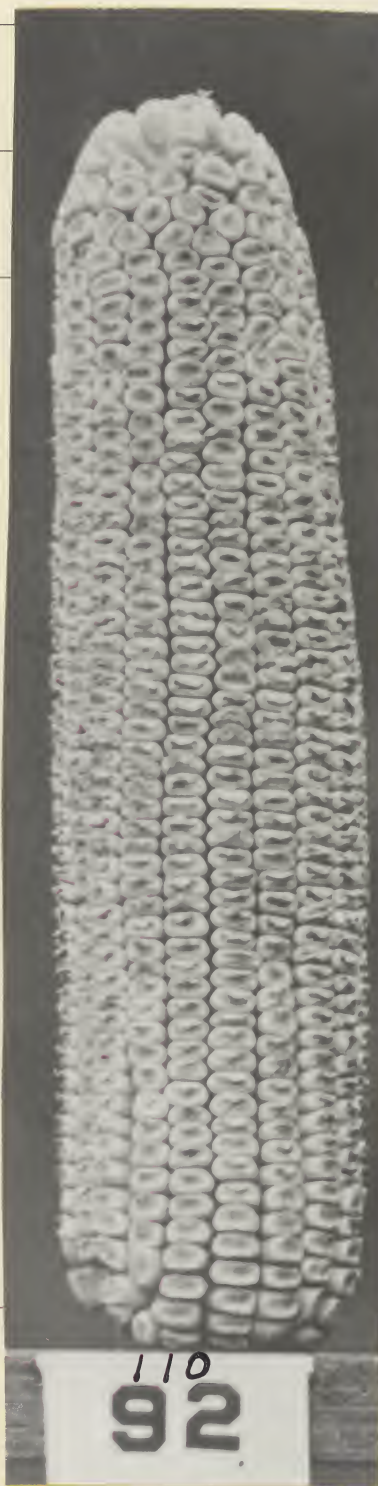
110

DESCRIPTIVE DATA FOR SAMPLE NUMBER 110-92

10 in.

9 in.

8 in.



Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														
Bushels per acre	68.5	High					Median						Low	122-
		78.1					71.7						61.0	125
Percent of good corn	89.5	High											Low	126-
		92.7					89.8						85.8	129
Percent of moisture	23.2	Low											High	130-
		17.9					21.4						24.9	133
Percent of shelled corn	84.7	High											Low	134-
		87.3					85.8						84.5	137
Density of shelled corn	33.1	Heavy											Light	138-
		35.6					34.2						32.4	141
Germination index	81.2	High											Low	142-
		93.8					87.1						64.5	145
Disease index	67.4	Little											Much	146-
		90.2					75.7						58.3	149
Weight of ears	14.92	Heavy											Light	150-
		15.07					12.75						10.35	153
Yield test per acre Items observed by oldtime corn judges														
Density of ears	-3 38.61	Heavy					Median						Light	154-
		42.03					39.54						37.58	157
Kernel development	+3 68.1	Good											Poor	158-
		78.6					56.4						38.3	161
Indentation index	-1 60.2	Smooth											Rough	162-
		16.5					44.7						87.3	165
Length of kernels	-5 14.26	Long											Short	166-
		15.72					13.41						12.47	169
Width of kernels	+1 8.38	Wide											Narrow	170-
		9.01					7.92						7.12	173
Thickness of kernels	+1 4.21	Thick											Thin	174-
		4.42					4.21						3.89	177
Length of ears	-1 9.54	Long											Short	178-
		9.67					8.96						8.25	181
Diameter of ears	-3 2.271	Small											Large	182-
		2.012					2.137						2.304	185
No. of rows of kernels	+1 18.0	Small											Large	186-
		14.9					18.3						20.9	189
Color of shank index	-1 78.3	White											Dark	190-
		86.7					67.7						36.7	193
Condition of shank index	-1 25.0	Smooth											Rough	194-
		58.3					38.4						18.3	197
Variation index	+1 6.0	Uniform											Uneven	198-
		3.0					7.0						11.0	201
Total -8														
★ A relationship of each descriptive item to yield and to all other items														
202-														
205														

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110
92

Sample No. 110-92, entered by

DAN STEFFEN

Selected and grown for four years by Mr. Steffen. His seed was obtained from neighbors in the Illinois River bottom. This was one of the six white samples. Mr. Steffen was a consistent winner in the Old Type Corn Shows. Page 177. 206. See also page 216.

111

DESCRIPTIVE DATA FOR SAMPLE NUMBER 111-86

10 in.

9 in.

8 in.



Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														VOL. II
Bushels per acre	68.3	High					Median					Low	122-125	
		78.1				71.7					61.0			
Percent of good corn	88.7	High										Low	126-129	
		92.7				89.8					85.8			
Percent of moisture	22.3	Low										High	130-133	
		17.9				21.4					24.9			
Percent of shelled corn	85.5	High										Low	134-137	
		87.3				85.8					84.5			
Density of shelled corn	34.5	Heavy										Light	138-141	
		35.6				34.2					32.4			
Germination index	82.4	High										Low	142-145	
		93.8				87.1					64.5			
Disease index	72.4	Little										Much	146-149	
		90.2				75.7					58.3			
Weight of ears	1290	Heavy										Light	150-153	
		15.07				12.75					10.35			
Yield test score Items observed by oldtime corn judges														
Density of ears	-1 39.07	Heavy					Median					Light	154-157	
		42.03				39.54					37.58			
Kernel development	+1 62.4	Good										Poor	158-161	
		78.6				56.4					38.3			
Indentation index	-1 27.0	Smooth										Rough	162-165	
		16.5				44.7					87.3			
Length of kernels	-5 12.91	Long										Short	166-169	
		15.72				13.41					12.47			
Width of kernels	-5 7.44	Wide										Narrow	170-173	
		9.01				7.92					7.12			
Thickness of kernels	+1 4.27	Thick										Thin	174-177	
		4.42				4.21					3.89			
Length of ears	+1 8.75	Long										Short	178-181	
		9.67				8.96					8.25			
Diameter of ears	-3 2.192	Small										Large	182-185	
		2.012				2.137					2.304			
No. of rows of kernels	-5 20.9	Small										Large	186-189	
		14.9				18.3					20.9			
Color of shank index	-1 36.7	White										Dark	190-193	
		86.7				67.7					36.7			
Condition of shank index	-1 20.0	Smooth										Rough	194-197	
		58.3				38.4					18.3			
Variation index	-1 11.0	Uniform										Uneven	198-201	
		3.0				7.0					11.0			
Total -20														202-205
★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														

Sample No. 111-86, entered by

JESSE SCHROCK

Selected and grown five years by Mr. Schrock.
His seed was obtained from Sutton Seed Company.

112

DESCRIPTIVE DATA FOR SAMPLE NUMBER 112-108

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		
Items that required field or laboratory tests														VOL. II
Bushels per acre	68.1	High 78.1					Median 71.7						Low 61.0	122-125
Percent of good corn	89.0	High 92.7					89.8						Low 85.8	126-129
Percent of moisture	21.1	Low 17.9					21.4						High 24.9	130-133
Percent of shelled corn	86.7	High 87.3					85.8						Low 84.5	134-137
Density of shelled corn	34.2	Heavy 35.6					34.2						Light 32.4	138-141
Germination index	93.3	High 93.8					87.1						Low 64.5	142-145
Disease index	73.3	Little 90.2					75.7						Much 58.3	146-149
Weight of ears	13.55	Heavy 15.07					12.75						Light 10.35	150-153

Yield test score

Items observed by oldtime corn judges

Density of ears	+3	40.81	Heavy 42.03				Median 39.54						Light 37.58	154-157
Kernel development	-7	49.4	Good 78.6				56.4						Poor 38.3	158-161
Indentation index	-1	55.2	Smooth 16.5				44.7						Rough 87.3	162-165
Length of kernels	+3	14.10	Long 15.72				13.41						Short 12.47	166-169
Width of kernels	-3	7.59	Wide 9.01				7.92						Narrow 7.12	170-173
Thickness of kernels	-5	3.95	Thick 4.42				4.21						Thin 3.89	174-177
Length of ears	+1	8.67	Long 9.67				8.96						Short 8.25	178-181
Diameter of ears	-3	2.208	Small 2.012				2.137						Large 2.304	182-185
No. of rows of kernels	-5	19.8	Small 14.9				18.3						Large 20.9	186-189
Color of shank index	-1	55.0	White 86.7				67.7						Dark 36.7	190-193
Condition of shank index	-1	35.0	Smooth 58.3				38.4						Rough 18.3	194-197
Variation index	+1	6.0	Uniform 3.0				7.0						Uneven 11.0	198-201

★ *Total -18*
A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.

Sample No. 112-108, entered by

J.A. SECKLER

Selected and grown four years by Mr. Seckler. His seed was obtained from John Seckler, whose sample is entered as No. 59-106.

This corn was selected in 1923 as one of ten samples most typical of corn that won prizes in the old-type corn shows. Page 177, 186, also page 216

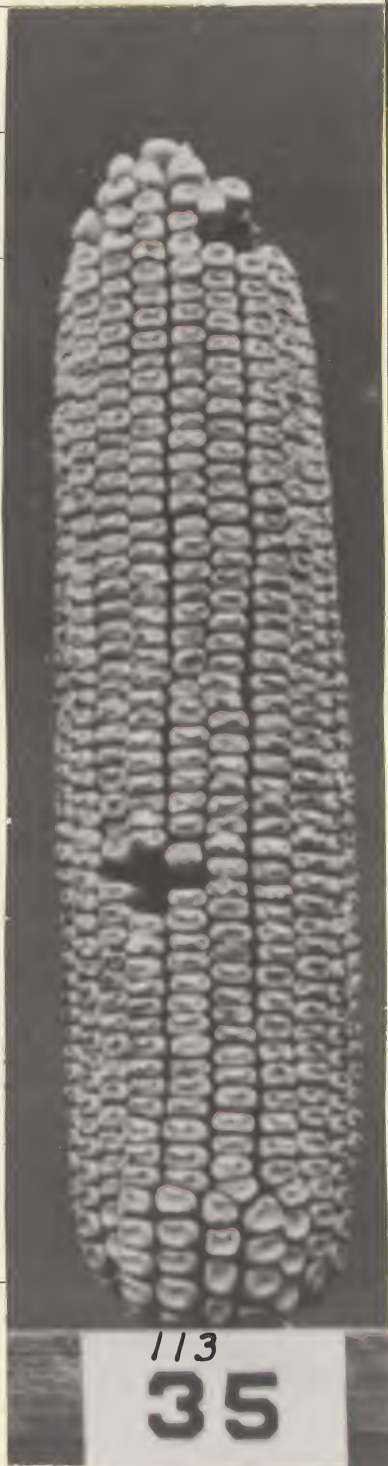
112
108

DESCRIPTIVE DATA FOR SAMPLE NUMBER 113-35

10 in.

9 in.

8 in.



Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														VOL. II
Bushels per acre	68.1	High 78.1					Median 71.7						Low 61.0	122-125
Percent of good corn	90.2	High 92.7					89.8						Low 85.8	126-129
Percent of moisture	22.5	Low 17.9					21.4						High 24.9	130-133
Percent of shelled corn	85.6	High 87.3					85.8						Low 84.5	134-137
Density of shelled corn	34.0	Heavy 35.6					34.2						Light 32.4	138-141
Germination index	91.0	High 93.8					87.1						Low 64.5	142-145
Disease index	74.3	Little 90.2					75.7						Much 58.3	146-149
Weight of ears	13.12	Heavy 15.07					12.75						Light 10.35	150-153
Yield test score Items observed by oldtime corn judges														
Density of ears	-3 38.75	Heavy 42.03					Median 39.54						Light 37.58	154-157
Kernel development	-7 45.0	Good 78.6					56.4						Poor 38.3	158-161
Indentation index	-1 59.2	Smooth 16.5					44.7						Rough 87.3	162-165
Length of kernels	+3 13.76	Long 15.72					13.41						Short 12.47	166-169
Width of kernels	-3 7.57	Wide 9.01					7.92						Narrow 7.12	170-173
Thickness of kernels	-5 4.03	Thick 4.42					4.21						Thin 3.89	174-177
Length of ears	+1 8.83	Long 9.67					8.96						Short 8.25	178-181
Diameter of ears	-3 2.208	Small 2.012					2.137						Large 2.304	182-185
No. of rows of kernels	-5 19.4	Small 14.9					18.3						Large 20.9	186-189
Color of shank index	-1 53.3	White 86.7					67.7						Dark 36.7	190-193
Condition of shank index	+1 43.3	Smooth 58.3					38.4						Rough 18.3	194-197
Variation index	+1 7.0	Uniform 3.0					7.0						Uneven 11.0	198-201
★ Total -22 A relationship of each descriptive item to yield and to all other items														202-205

Sample No. 113-35, entered by

HENRY MATTEK

In 1918 Mr. Matter mixed some seed obtained in Springfield, Illinois, with some that he had grown for 15 years.

Mr. Matter's sample was among the ten low yield-test-score samples. Page 175, 203.

See also pages 210 and 211 and 217

114

DESCRIPTIVE DATA FOR SAMPLE NUMBER 114-15

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Decil group										Best or most favored	Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			

Items that required field or laboratory tests

VOL. II

Bushels per acre	68.0	High				Median						Low	122-125
		78.1				71.7						61.0	
Percent of good corn	89.7	High										Low	126-129
		92.7				89.8						85.8	
Percent of moisture	21.2	Low										High	130-133
		17.9				21.4						24.9	
Percent of shelled corn	85.9	High										Low	134-137
		87.3				85.8						84.5	
Density of shelled corn	34.0	Heavy										Light	138-141
		35.6				34.2						32.4	
Germination index	86.0	High										Low	142-145
		93.8				87.1						64.5	
Disease index	83.6	Little										Much	146-149
		90.2				75.7						58.3	
Weight of ears	11.63	Heavy										Light	150-153
		15.07				12.75						10.35	

Yield test score

Items observed by oldtime corn judges

Density of ears	+5 40.01	Heavy				Median						Light	154-157
		42.03				39.54						37.58	
Kernel development	+1 58.6	Good										Poor	158-161
		78.6				56.4						38.3	
Indentation index	-1 48.5	Smooth										Rough	162-165
		16.5				44.7						87.3	
Length of kernels	+1 13.34	Long										Short	166-169
		15.72				13.41						12.47	
Width of kernels	+1 7.91	Wide										Narrow	170-173
		9.01				7.92						7.12	
Thickness of kernels	+1 4.13	Thick										Thin	174-177
		4.42				4.21						3.89	
Length of ears	-3 8.33	Long										Short	178-181
		9.67				8.96						8.25	
Diameter of ears	+1 2.108	Small										Large	182-185
		2.012				2.137						2.304	
No. of rows of kernels	-1 18.7	Small										Large	186-189
		14.9				18.3						20.9	
Color of shank index	-1 61.7	White										Dark	190-193
		86.7				67.7						36.7	
Condition of shank index	+1 43.4	Smooth										Rough	194-197
		58.3				38.4						18.3	
Variation index	-1 8.0	Uniform										Uneven	198-201
		3.0				7.0						11.0	
Total +4													202-205

★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.

Sample No. 114-15, entered by

R.S. KERN

There is no record of the years selected and grown or of the source of seed entered by Mr. Kern. See page 216

114
15

DESCRIPTIVE DATA FOR SAMPLE NUMBER 115-40

10 in.

9 in.

8 in.



Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														VOL. II
Bushels per acre	67.9	High					Median						Low	122-
		78.1					71.7					61.0	125	
Percent of good corn	89.2	High											Low	126-
		92.7					89.8					85.8	129	
Percent of moisture	20.3	Low											High	130-
		17.9					21.4					24.9	133	
Percent of shelled corn	86.2	High											Low	134-
		87.3					85.8					84.5	137	
Density of shelled corn	33.5	Heavy											Light	138-
		35.6					34.2					32.4	141	
Germination index	86.4	High											Low	142-
		93.8					87.1					64.5	145	
Disease index	73.8	Little											Much	146-
		90.2					75.7					58.3	149	
Weight of ears	13.75	Heavy											Light	150-
		15.07					12.75					10.35	153	
Yield Test Items observed by oldtime corn judges														
Density of ears	+3 40.81	Heavy					Median						Light	154-
		42.03					39.54					37.58	158	
Kernel development	+1 53.8	Good											Poor	158-
		78.6					56.4					38.3	161	
Indentation index	-7 64.0	Smooth											Rough	162-
		16.5					44.7					87.3	165	
Length of kernels	-5 14.23	Long											Short	166-
		15.72					13.41					12.47	169	
Width of kernels	-3 7.65	Wide											Narrow	170-
		9.01					7.92					7.12	173	
Thickness of kernels	+1 4.20	Thick											Thin	174-
		4.42					4.21					3.89	177	
Length of ears	+1 9.00	Long											Short	178-
		9.67					8.96					8.25	181	
Diameter of ears	-1 2.183	Small											Large	182-
		2.012					2.137					2.304	185	
No. of rows of kernels	-3 19.1	Small											Large	186-
		14.9					18.3					20.9	189	
Color of shank index	+1 68.3	White											Dark	190-
		86.7					67.7					36.7	193	
Condition of shank index	+1 41.1	Smooth											Rough	194-
		58.3					38.4					18.3	197	
Variation index	+1 5.0	Uniform											Uneven	198-
		3.0					7.0					11.0	201	
* A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														202-205

Sample No. 115-40, entered by

J. J. SCHNEIDER

Selected and grown nine years by Mr. Schneider.
 Its seed was obtained from Frank Hock, a neighbor,
 whose seed was entered as No. 21-44.
 Mr. Schneider's corn was a consistent winner in the
 old type corn shows. Page 177, 207
 See also pages 210 and 211.

116

DESCRIPTIVE DATA FOR SAMPLE NUMBER 116-117

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		
Items that required field or laboratory tests														
Bushels per acre	67.9	High					Median					Low	122-	
		78.1					71.7					61.0	125	
Percent of good corn	88.1	High										Low	126-	
		92.7					89.8					85.8	129	
Percent of moisture	21.9	Low							•			High	130-	
		17.9					21.4					24.9	132	
Percent of shelled corn	85.3	High									•	Low	131-	
		87.3					85.8					84.5	137	
Density of shelled corn	34.0	Heavy										Light	138-	
		35.6					34.2			•		32.4	141	
Germination index	89.3	High										Low	142-	
		93.8			•		87.1					64.5	145	
Disease index	69.5	Little										Much	146-	
		90.2					75.7				•	58.3	149	
Weight of ears	11.93	Heavy										Light	150-	
		15.07					12.75				•	10.35	153	
Yield per acre Items observed by oldtime corn judges														
Density of ears +3	40.37	Heavy		•			Median					Light	154-	
		42.03					39.54					37.58	157	
Kernel development -3	51.2	Good									•	Poor	158-	
		78.6					56.4					38.3	161	
Indentation index -1	54.7	Smooth										Rough	162-	
		16.5					44.7			•		87.3	165	
Length of kernels +1	13.47	Long										Short	166-	
		15.72					13.41					12.47	169	
Width of kernels -5	7.56	Wide										Narrow	170-	
		9.01					7.92					7.12	173	
Thickness of kernels +1	4.04	Thick										Thin	174-	
		4.42					4.21				•	3.89	177	
Length of ears -3	8.33	Long										Short	178-	
		9.67					8.96					8.25	181	
Diameter of ears +1	2.125	Small										Large	182-	
		2.012			•		2.137					2.304	185	
No. of rows of kernels -5	19.9	Small										Large	186-	
		14.9					18.3				•	20.9	189	
Color of shank index -1	60.0	White										Dark	190-	
		86.7					67.7				•	36.7	193	
Condition of shank index -1	33.3	Smooth										Rough	194-	
		58.3					38.4				•	18.3	197	
Variation index +1	7.0	Uniform										Uneven	198-	
		3.0					7.0					11.0	201	
Total - 17														
★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														
VOL. II														

116
117

Sample No. 116-117, entered by

T.H. BRATT

There is no record of the years selected and grown or the source of Mr. Bratt's seed. See page 216.

DESCRIPTIVE DATA FOR SAMPLE NUMBER 117-90

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														VOL II
Bushels per acre	67.9	High 78.1				Median 71.7						Low 61.0	122-125	
Percent of good corn	89.3	High 92.7				89.8						Low 85.8	126-129	
Percent of moisture	22.3	Low 17.9				21.4						High 24.9	130-133	
Percent of shelled corn	86.4	High 87.3				85.8						Low 84.5	134-137	
Density of shelled corn	33.3	Heavy 35.6				34.2						Light 32.4	138-141	
Germination index	92.5	High 93.8				87.1						Low 64.5	142-145	
Disease index	78.2	Little 90.2				75.7						Much 58.3	146-149	
Weight of ears	15.07	Heavy 15.07				12.75						Light 10.35	150-153	
Yield test score Items observed by oldtime corn judges														
Density of ears	-5 38.18	Heavy 42.03				Median 39.54						Light 37.58	154-157	
Kernel development	-7 46.8	Good 78.6				56.4						Poor 38.3	158-161	
Indentation index	-7 79.5	Smooth 16.5				44.7						Rough 87.3	162-165	
Length of kernels	-5 14.67	Long 15.72				13.41						Short 12.47	166-169	
Width of kernels	-1 7.67	Wide 9.01				7.92						Narrow 7.12	170-173	
Thickness of kernels	+1 4.12	Thick 4.42				4.21						Thin 3.89	174-177	
Length of ears	-1 9.50	Long 9.67				8.96						Short 8.25	178-181	
Diameter of ears	-3 2.300	Small 2.012				2.137						Large 2.304	182-185	
No. of rows of kernels	-5 20.0	Small 14.9				18.3						Large 20.9	186-189	
Color of shank index	+1 65.0	White 86.7				67.7						Dark 36.7	190-193	
Condition of shank index	-1 37.5	Smooth 58.3				38.4						Rough 18.3	194-197	
Variation index	+1 3.0	Uniform 3.0				7.0						Uneven 11.0	198-201	
Total -32														202-205
★ A relationship of each descriptive item to yield and to all other items														

★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.

Sample No. 117-90, entered by

S. J. BLACK

Selected and grown for 47 years by Mr. Black. His seed was selected from Leaming corn which was a common variety in the southern half of the Cornbelt.

Mr. Black was a consistent winner in the old type National Corn Show held during many years during the National Livestock Exposition in Chicago. Page 177-204 Mr. Black's sample was among the ten low yield-test score samples. Page 175, 203.

See pages 210 and 211.

10 in.

9 in.

8 in.

117
90

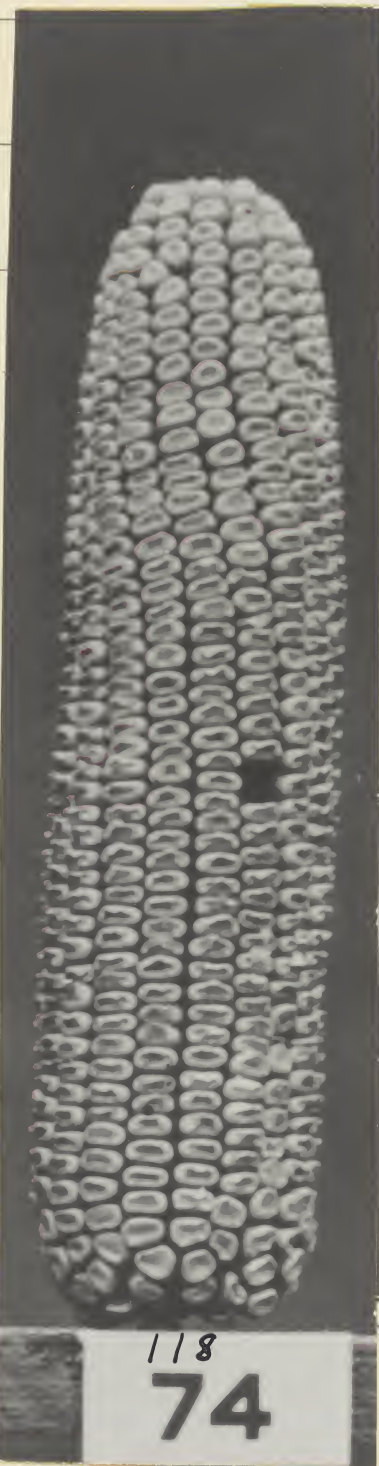
118

DESCRIPTIVE DATA FOR SAMPLE NUMBER 118-74

10 in.

9 in.

8 in.



Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored
			1	2	3	4	5	6	7	8	9	10	

See page

Items that required field or laboratory tests

Vol. 11

Bushels per acre	67.3	High					Median						Low
		78.1					71.7						61.0
Percent of good corn	85.9	High											Low
		92.7					89.8						85.8
Percent of moisture	21.5	Low											High
		17.9					21.4						24.9
Percent of shelled corn	85.2	High											Low
		87.3					85.8						84.5
Density of shelled corn	34.7	Heavy											Light
		35.6					34.2						32.4
Germination index	80.7	High											Low
		93.8					87.1						64.5
Disease index	70.2	Little											Much
		90.2					75.7						58.3
Weight of ears	13.20	Heavy											Light
		15.07					12.75						10.35

122-125

126-129

130-133

134-137

138-141

142-145

146-149

150-153

Yield Test Score

Items observed by oldtime corn judges

Density of ears	-1	39.62	Heavy				Median						Light
		42.03					39.54						37.58
Kernel development	+1	58.8	Good										Poor
		78.6					56.4						38.3
Indentation index	-1	51.0	Smooth										Rough
		16.5					44.7						87.3
Length of kernels	+1	13.50	Long										Short
		15.72					13.41						12.47
Width of kernels	-1	7.70	Wide										Narrow
		9.01					7.92						7.12
Thickness of kernels	+1	4.13	Thick										Thin
		4.42					4.21						3.89
Length of ears	+1	8.83	Long										Short
		9.67					8.96						8.25
Diameter of ears	-3	2.192	Small										Large
		2.012					2.137						2.304
No. of rows of kernels	-3	19.2	Small										Large
		14.9					18.3						20.9
Color of shank index	-1	51.7	White										Dark
		86.7					67.7						36.7
Condition of shank index	+1	41.7	Smooth										Rough
		58.3					38.4						18.3
Variation index	-1	10.0	Uniform										Uneven
		3.0					7.0						11.0

154-157

158-161

162-165

166-169

170-173

174-177

178-181

182-185

186-189

190-193

194-197

198-201

202-205

★ *Total -6*
A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.

Sample No. 118-74, entered by

J.W. PFLEGER

Selected and grown 20 years by Mr. Pfleger.

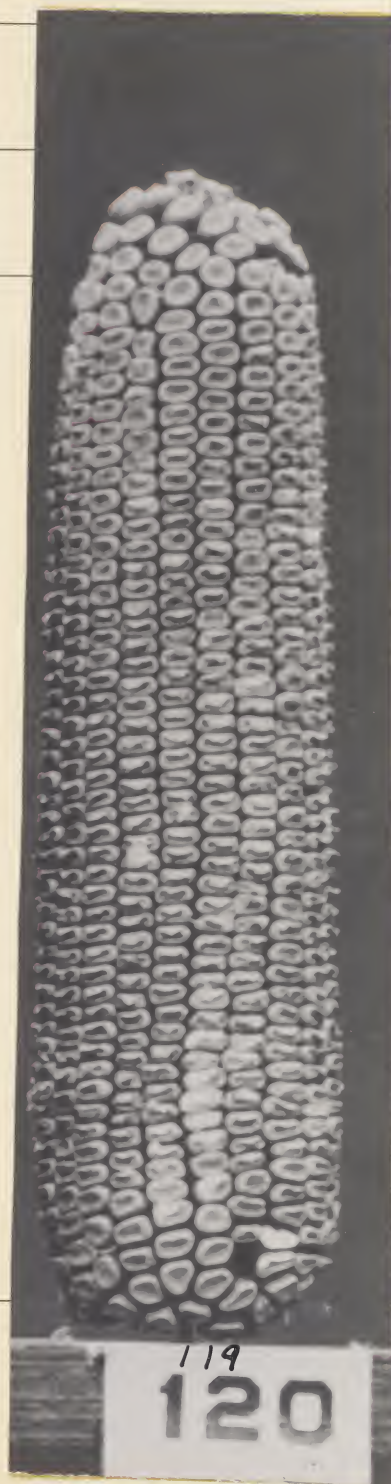
His seed was obtained from A.C. Jones. See page 118
also 216
also 217

DESCRIPTIVE DATA FOR SAMPLE NUMBER 119-120

10 in.

9 in.

8 in.



Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
		1	2	3	4	5	6	7	8	9	10			
Items that required field or laboratory tests														VOL. II
Bushels per acre	66.9	High 78.1				Median 71.7						Low 61.0	122-125	
Percent of good corn	87.7	High 92.7				89.8						Low 85.8	126-129	
Percent of moisture	21.5	Low 17.9				21.4						High 24.9	130-133	
Percent of shelled corn	85.0	High 87.3				85.8						Low 84.5	134-137	
Density of shelled corn	34.2	Heavy 35.6				34.2						Light 32.4	138-141	
Germination index	—	High 93.8				87.1						Low 64.5	142-145	
Disease index	—	Little 90.2				75.7						Much 58.3	146-149	
Weight of ears	13.17	Heavy 15.07				12.75						Light 10.35	150-153	
Yield test score Items observed by oldtime corn judges														
Density of ears	-1 39.60	Heavy 42.03				Median 39.54						Light 37.58	154-157	
Kernel development	-7 46.8	Good 78.6				56.4						Poor 38.3	158-161	
Indentation index	-7 68.3	Smooth 16.5				44.7						Rough 87.3	162-165	
Length of kernels	+1 13.47	Long 15.72				13.41						Short 12.47	166-169	
Width of kernels	-5 7.40	Wide 9.01				7.92						Narrow 7.12	170-173	
Thickness of kernels	-5 4.00	Thick 4.42				4.21						Thin 3.89	174-177	
Length of ears	+1 8.75	Long 9.67				8.96						Short 8.25	178-181	
Diameter of ears	-3 2.200	Small 2.012				2.137						Large 2.304	182-185	
No. of rows of kernels	-5 19.9	Small 14.9				18.3						Large 20.9	186-189	
Color of shank index	-1 62.5	White 86.7				67.7						Dark 36.7	190-193	
Condition of shank index	-1 30.0	Smooth 58.3				38.4						Rough 18.3	194-197	
Variation index	+1 6.0	Uniform 3.0				7.0						Uneven 11.0	198-201	
Total -32														202-205
★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.														
Sample No. 119-120, entered by														
T. H. BRATT														

There is no record of the years selected and grown or the source of Mr. Bratt's seed. See No. 116-117 for another sample entered by Mr. Bratt.

Mr. Bratt, who was a loyal Extension cooperator, had been keenly disappointed by his showing in the 1919 test and insisted that he could do much better if he could enter another more carefully selected sample from the corn that he had been growing. This sample, No. 119-120, was the result of his "Careful selection" from the same corn as his No. 116-117. Page 445, 203. See also pages 210 and 211

120

DESCRIPTIVE DATA FOR SAMPLE NUMBER 120-99

10 in.

9 in.

8 in.

Descriptive items	Value for this sample	Best or most favored	Decil group										Poorest or least favored	See page
			1	2	3	4	5	6	7	8	9	10		

Items that required field or laboratory tests

VOL II

Bushels per acre	61.0	High					Median						Low	122-125
		78.1					71.7						61.0	125
Percent of good corn	86.1	High											Low	126-129
		92.7					89.8						85.8	129
Percent of moisture	23.6	Low											High	130-133
		17.9					21.4						24.9	133
Percent of shelled corn	85.3	High											Low	134-137
		87.3					85.8						84.5	137
Density of shelled corn	32.4	Heavy											Light	138-141
		35.6					34.2						32.4	141
Germination index	87.1	High											Low	142-145
		93.8					87.1						64.5	145
Disease index	72.5	Little											Much	146-149
		90.2					75.7						58.3	149
Weight of ears	14.47	Heavy											Light	150-153
		15.07					12.75						10.35	153

Yield test score

Items observed by oldtime corn judges

Density of ears	-5	38.49	Heavy				Median						Light	154-157
			42.03				39.54						37.58	157
Kernel development	+1	53.9	Good										Poor	158-162
			78.6				56.4						38.3	162
Indentation index	-7	87.3	Smooth										Rough	162-165
			16.5				44.7						87.3	165
Length of kernels	-5	15.72	Long										Short	166-169
			15.72				13.41						12.47	169
Width of kernels	-1	7.83	Wide										Narrow	170-173
			9.01				7.92						7.12	173
Thickness of kernels	+1	4.25	Thick										Thin	174-177
			4.42				4.21						3.89	177
Length of ears	-1	9.25	Long										Short	178-181
			9.67				8.96						8.25	181
Diameter of ears	-3	2.275	Small										Large	182-185
			2.012				2.137						2.304	185
No. of rows of kernels	-5	19.9	Small										Large	186-189
			14.9				18.3						20.9	189
Color of shank index	-1	62.5	White										Dark	190-193
			86.7				67.7						36.7	193
Condition of shank index	+3	47.5	Smooth										Rough	194-197
			58.3				38.4						18.3	197
Variation index	+1	7.0	Uniform										Uneven	198-201
			3.0				7.0						11.0	201

Table 22

★ A relationship of each descriptive item to yield and to all other items is shown on the pages indicated.

202-205

Sample No. 120-99, entered by

O. E. MOULTON

Selected and grown 12 years by Mr. Moulton. His seed was developed from a mixture of Reids Yellow Dent and Leaming. Mr. Moulton was a consistent winner in Old Type Corn Show held in Chicago during the International Livestock Exposition. Page 207. His sample was among the ten low "yield-test-score" samples. Page 203.

See pages 210 and 211.

120

99







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